

ANNUAL REGISTER

OF THE

UNITED STATES NAVAL ACADEMY

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THE MISSION

TO mold the material received into educated gentlemen, thoroughly indoctrinated with honor, uprightness, and truth, with practical rather than academic minds, with thorough loyalty to country, with a groundwork of educational fundamentals upon which experience afloat may build the finished naval officer, capable of upholding, whenever and wherever may be necessary, the honor of the United States; and withal giving due consideration that healthy minds in healthy bodies are necessities for the fulfillment of the individual missions of the graduates; and that fullest efficiency under this mission can only be attained if, through just and humane yet firm discipline, the graduates carry into the service respect and admiration for this academy



THE UNITED STATES NAVAL ACADEMY

The United States Naval Academy was founded in 1845 by the Hon. George Bancroft, Secretary of the Navy, in the administration of President James K. Polk. It was formally opened October 10 of that year under the name of the Naval School, with Commander Franklin Buchanan as superintendent. It was placed at Annapolis, Md., on the land occupied by Fort Severn, which was given up for the purpose by the War Department by the Hon. William L. Marcy, then Secretary of War. The course was fixed at five years, of which only the first year and the last were spent at the school, the intervening three years being passed at sea. This arrangement was not strictly adhered to, the exigencies of the service making it necessary, in many cases, to shorten the period of study. In January, 1846, four months after the opening of the school, the students consisted of 36 midshipmen of the date of 1840, who were preparing for the examination for promotion; 13 of the date of 1841, who were to remain until drafted for service at sea; and 7 acting midshipmen appointed after September of the previous year. The midshipmen of the date of 1840 were the first to be graduated, finishing their limited course in July, 1846, and they were followed in order by the subsequent dates until the reorganization of the school in 1850.

In September, 1849, the following board was appointed to revise the plan and the regulations of the Naval School:

Commander William B. Shubrick.

Commander Franklin Buchanan.

Commander Samuel F. DuPont.

Commander George P. Upshur.

Surg. W. S. W. Ruschemberger.

Prof. William Chauvenet.

Capt. Henry Brewerton, United States Army.

The plan reported by the board was approved and went into operation July 1, 1850. The new organization provided for a course of seven years, the first two and the last two at the school and the three intermediate years at sea. The school was placed under the supervision of the Bureau of Ordnance and Hydrography and its name was changed to the United States Naval Academy. The corps of professors was enlarged, the course was extended, and the system of separate departments with executive heads was fully adopted. It was provided that a Board of Visitors should make an annual inspection of the academy and report upon its condition to the Secretary of the Navy. A suitable vessel was attached to the academy as a practice ship and the annual practice cruises were begun.

After the system had been in operation a year new changes were proposed and the recommendations of the academic board on the subject were referred to the board of examiners for the year 1851, composed of the following-named officers:

Commodore David Conner.

Capt. Samuel L. Breese.

Commander C. K. Stribling.

Commander A. Bigelow.

Commander Franklin Buchanan.

Lieut. Thomas T. Craven.

The change recommended by the board of examiners and adopted by the department consisted mainly in leaving out the requirements of three years of sea service in the middle of the course, thus making the four years of study consecutive. The practice cruise supplied the place of the omitted sea service and gave better opportunities for training. The change went into operation in November, 1851, together with other improvements recommended by the board. This system has been continued, with some slight modifications, to the present time. The first class to receive the benefit of it was that which entered in 1851. Six members of this class completed the course in three years and were graduated in June, 1854; the remainder of the class followed in 1855.

In May, 1861, on the outbreak of the war, the academy was moved to Newport, R. I. The three upper classes were detached and ordered to sea and the remaining acting midshipmen were quartered in the Atlantic House and on board the frigates *Constitution* and *Santee*. In the summer of 1865 the academy was brought back to Annapolis, where it has since remained.

When the Bureau of Navigation was established, July 5, 1862, the academy was placed under its supervision; March 1, 1867, it was placed under the direct care and supervision of the Navy Department, the administrative routine and financial management still being conducted through the bureau. On the 11th of March, 1869, this official connection with the bureau ceased, but was renewed by the general order of the Navy Department issued June 25, 1889.

The term of the academic course was changed by law March 3, 1873, from four to six years. The change took effect with the class that entered in the following summer.

In 1866 a class of acting third assistant engineers was ordered to the academy for instruction. The course embraced the subject of steam engineering mechanism, chemistry, mechanics, and practical exercises with the steam engine and in the machine shop. This class was graduated in June, 1868, together with two cadet engineers who had entered the academy in 1867. After an interval of four years, in October, 1871, a new class of cadet engineers was admitted. This class followed a two years' course, somewhat more extended than that of the class of 1868, and was graduated in 1873. In 1872 and 1873 new classes were admitted, the first of which left the academy in 1874 and the second in 1875. By an act of Congress approved February 24, 1874, the course of instruction for cadet engineers was made four years instead of two; the new provision was first applied to the class entering the academy in the year 1874. This class was graduated in June, 1878.

An act of Congress approved June 23, 1874, provides as follows:

"Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That in all cases when it shall come to the knowledge of the Superintendent of the Naval Academy, at Annapolis, that any cadet midshipman or cadet engineer has been guilty of the offense commonly known as hazing, it shall be the duty of said superintendent to order a court-martial, composed of not less than three commissioned officers, who shall minutely examine into all the facts and circumstances of the case and make a finding thereon; and any cadet midshipman or cadet engineer found guilty of said offense by said court shall, upon recommendation of said court, be dismissed; and such finding, when approved by said superintendent, shall be final; and the cadet so dismissed from said Naval Academy shall be forever ineligible to reappointment to said Naval Academy."

By an act of Congress approved August 5, 1882, it was provided that from that date "there shall be no appointments of cadet midshipmen or cadet engineers at the Naval Academy, but in lieu thereof naval cadets shall be appointed from each congressional district and at large, as now provided by law for cadet

midshipmen, and all the undergraduates at the Naval Academy shall hereafter be designated and called 'naval cadets,' and from those who successfully complete the six years' course appointments shall hereafter be made as it is necessary to fill vacancies in the lower grades of the Line and Engineer Corps of the Navy and of the Marine Corps: *And provided further*, That no greater number of appointments into these grades shall be made each year than shall equal the number of vacancies which has occurred in the same grades during the preceding year; such appointments to be made from the graduates of the year, at the conclusion of their six years' course, in order of merit, as determined by the academic board of the Naval Academy; the assignment of the various corps to be made by the Secretary of the Navy upon the recommendation of the academic board. But nothing herein contained shall reduce the number of appointments from such graduates below ten in each year, nor deprive of such appointment any graduate who may complete the six years' course during the year eighteen hundred and eighty-two. And if there be a surplus of graduates, those who do not receive such appointment shall be given a certificate of graduation, an honorable discharge, and one year's sea pay, as now provided by law for cadet midshipmen; and so much of section fifteen hundred and twenty-one of the Revised Statutes as is inconsistent herewith is hereby repealed.

"That any cadet whose position in his class entitles him to be retained in the service may, upon his own application, be honorably discharged at the end of four years' course at the Naval Academy, with a proper certificate of graduation."

In 1886 a special course of instruction in physiology and hygiene was established, in accordance with an act of Congress approved May 20 of that year.

The act of Congress approved March 2, 1889, provides that "the academic board of the Naval Academy shall, on or before the thirtieth day of September in each year, separate the first class of naval cadets then commencing their fourth year into two divisions, as they may have shown special aptitude for the duties of the respective corps, in the proportion which the aggregate number of vacancies occurring in the preceding fiscal year ending on the thirtieth day of June in the lowest grade of commissioned officers of the Line of the Navy and Marine Corps of the Navy shall bear to the number of vacancies to be supplied from the academy occurring during the same period in the lowest grade of commissioned officers of the Engineer Corps of the Navy; and the cadets so assigned to the Line and Marine Corps division of the first class shall thereafter pursue a course of study arranged to fit them for service in the Line of the Navy, and the cadets so assigned to the Engineer Corps division of the first class shall thereafter pursue a separate course of study arranged to fit them for service in the Engineer Corps of the Navy, and the cadets shall thereafter, and until final graduation at the end of their six years' course, take rank by merit with those in the same division according to the merit marks; and from the final graduates of the Line and Marine Corps division, at the end of their six years' course, appointments shall be made hereafter as it shall be necessary to fill vacancies in the lowest grades of commissioned officers of the Line of the Navy and Marine Corps; and the vacancies in the lowest grades of the commissioned officers of the Engineer Corps of the Navy shall be filled in like manner by appointments from the final graduates of the engineer division at the end of their six years' course: *Provided*, That no greater number of appointments into the said lowest grades of commissioned officers shall be made each year than shall equal the number of vacancies which shall have occurred in the same grades during the fiscal year then current; such appointments to be made from the final graduates of the year, in the order of merit as determined by the academic board of the Naval Academy, the assignment to be made by the Secretary of the Navy upon the recommendation of the academic board at the conclusion of the fiscal year then current; but nothing contained herein

or in the naval appropriation act of August fifth, eighteen hundred and eighty-two, shall reduce the number of appointments of final graduates at the end of their six years' course below twelve in each year to the Line of the Navy and not less than two shall be appointed annually to the Engineer Corps of the Navy, nor less than one annually to the Marine Corps; and if the number of vacancies in the lowest grades aforesaid occurring in any year shall be greater than the number of final graduates of that year the surplus vacancies shall be filled from the final graduates of the following years as they shall become available.

"That after the fourth day of March, eighteen hundred and eighty-nine, the minimum age of admission of cadets to the academy shall be fifteen years and the maximum age twenty years."

In October, 1897, a postgraduate course in naval architecture for the education of officers for the Construction Corps of the Navy was established; and a class was formed from the naval cadets that had finished the four years' course in that year.

By an act of Congress approved March 3, 1899, "the officers constituting the Engineer Corps of the Navy" were transferred to the "Line of the Navy," thereby repealing so much of the act of Congress approved March 2, 1889, as relates to the separation of naval cadets of the first class into line and engineer divisions.

This same act having limited the number of constructors in the Navy to 40, the postgraduate course in naval architecture was discontinued.

By an act of Congress approved June 7, 1900, it was provided that—

"Whenever any naval cadet shall have finished four years of his undergraduate course of six years the succeeding appointment may be made from his congressional district or at large in accordance with the existing law."

By an act of Congress approved July 1, 1902, it was provided that—

"The title 'naval cadet' is hereby changed to 'midshipman.'"

"That until the year nineteen hundred and fourteen, in addition to the naval cadets now authorized by law (the title having been changed by this act to midshipmen), the President shall appoint five midshipmen, and there shall be appointed from the States at large, upon the recommendation of Senators, two midshipmen for each State."

By an act of Congress approved March 3, 1903, it was provided that—

"There shall be allowed at the Naval Academy two midshipmen for each Senator, Representative, and Delegate in Congress, two for the District of Columbia, and five each year at large: *Provided*, That the additional congressional appointments authorized by this act shall be made at such time as may be determined by the Secretary of the Navy, who shall equitably distribute the increase among the several States, Districts, and Territories, so that ultimately, if practicable, each Senator, Representative, and Delegate may recommend for appointment during each Congress one midshipman: *Provided further*, That Members of the Fifty-seventh Congress who will not be Members of the Fifty-eighth Congress, and in whose districts or States appointments have not been made or vacancies filled in the Fifty-seventh Congress, may immediately upon the passage of this act make the additional appointments herein provided for.

"The Secretary of the Navy shall, as soon as practicable after the fifth day of March in each year, notify in writing each Senator, Representative, and Delegate in Congress of any vacancy which may be regarded as existing in the State, District, or Territory which he represents, and the nomination of a candidate to fill such vacancy shall be made upon the recommendation of the Senator, Representative, or Delegate. Such recommendations shall be made by the first day of June of that year, and if not so made the Secretary of the Navy shall fill the vacancy by the appointment of an actual resident of the State, District, or Territory in which the vacancy exists, who shall have been for at least two years

immediately preceding his appointment an actual bona fide resident of the State, District, or Territory in which the vacancy exists and shall have the qualifications otherwise prescribed by law: *And provided further*, That the Superintendent of the Naval Academy shall make such rules, to be approved by the Secretary of the Navy, as will effectually prevent the practice of hazing; and any cadet found guilty of participating in or encouraging or countenancing such practice shall be summarily expelled from the academy, and shall not thereafter be reappointed to the Corps of Cadets or be eligible for appointment as a commissioned officer in the Army or Navy or Marine Corps until two years after the graduation of the class of which he was a member.

"That the provision of this act for the increase of appointments of midshipmen to the Naval Academy shall continue in force until the thirtieth day of June, nineteen hundred and thirteen; and thereafter one midshipman, as now provided by law, shall be appointed for each Senator, Representative, and Delegate in Congress.

"That hereafter there shall be at the Naval Academy one midshipman from Porto Rico, who shall be a native of said island, and whose appointment shall be made by the President on the recommendation of the Governor of Porto Rico.

"That after January first, nineteen hundred and four, all candidates for admission to the Naval Academy at the time of their examination must be between the ages of sixteen and twenty years."

"All candidates for admission into the academy shall be examined according to such regulations and at such stated times as the Secretary of the Navy may prescribe. Candidates rejected at such examination shall not have the privilege of another examination for admission to the same class, unless recommended by the board of examiners." (R. S. sec. 1515.)

"When any candidate who has been nominated upon the recommendation of a Member or Delegate of the House of Representatives is found, upon examination, to be physically or mentally disqualified for admission, the Member or Delegate shall be notified to recommend another candidate, who shall be examined according to the provisions of the preceding section." (R. S. sec. 1516.)

An act of Congress approved April 9, 1906, reads as follows:

"AN ACT Granting authority to the Secretary of the Navy, in his discretion, to dismiss midshipmen from the United States Naval Academy and regulating the procedure and punishment in trials for hazing at the said academy.

"*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled*, That it shall be the duty of the Superintendent of the United States Naval Academy, whenever he shall believe the continued presence of any midshipman at the said academy to be contrary to the best interests of the service, to report in writing such fact, with a full statement of the facts upon which are based his reasons for such belief, to the Secretary of the Navy, who, if after due consideration of the said report he shall deem the superintendent's said belief reasonable and well founded, shall cause a copy of the said report to be served upon the said midshipman and require the said midshipman to show cause in writing and within such time as the said Secretary shall deem reasonable, why he should not be dismissed from the said academy; and after due consideration of any cause so shown the said Secretary may, in his discretion, but with the written approval of the President, dismiss such midshipman from the said academy. And the truth of any issue of fact so raised, except upon the record of demerit, shall be determined by a board of inquiry convened by the Secretary of the Navy under the rules and regulations for the government of the Navy.

"SEC. 2. That so much of the acts approved June twenty-third, eighteen hundred and seventy-four, and March third, nineteen hundred and three, as

requires the Superintendent of the United States Naval Academy to convene a court-martial in all cases when it shall come to the knowledge of the said superintendent that any midshipman has been guilty of the offense commonly known as 'hazing,' and declares the finding of a court-martial so convened, when approved by the said superintendent, final, and directs that any midshipman found guilty by such court-martial shall be summarily dismissed from the said academy, and also all other acts or parts of acts inconsistent with the present act, are hereby repealed, and that the offense known as 'hazing' may hereafter be proceeded against, dealt with, and punished as offenses against good order and discipline and for violation and breaches of the rules of said academy. But no midshipman shall be dismissed for a single act of hazing except under the provisions of section three of this act.

"SEC. 3. That the Superintendent of the United States Naval Academy may, in his discretion, and with the approval of the Secretary of the Navy, cause any midshipman in the said academy to be tried by court-martial for the offense of hazing, as provided by the act approved June twenty-third, eighteen hundred and seventy-four, and such court-martial, upon conviction, may sentence such midshipman to any punishment authorized by the said act or by the act approved March third, nineteen hundred and three, or authorized for any violation or breach of the rules of the said academy by the said rules, or in cases of brutal or cruel hazing, may, in addition to dismissal, sentence such midshipman to imprisonment for a period not exceeding one year: *Provided*, That such midshipman shall not be confined in a military or naval prison or elsewhere with men who have been convicted of crimes or misdemeanors; and such finding and sentence shall be subject to review by the convening authority and by the Secretary of the Navy, as in the cases of other courts-martial.

"SEC. 4. That the offense of 'hazing,' as mentioned in this act, shall consist of any unauthorized assumption of authority by one midshipman over another midshipman whereby the last-mentioned midshipman shall or may suffer or be exposed to suffer any cruelty, indignity, humiliation, hardship, or oppression, or the deprivation or abridgment of any right, privilege, or advantage to which he shall be legally entitled.

"SEC. 5. That it shall be the duty of every professor, assistant professor, academic officer, or any cadet officer or cadet petty officer, or instructor, as well as every other officer stationed at the United States Naval Academy, to promptly report to the superintendent thereof any fact which comes to his attention tending to indicate any violation by a midshipman or midshipmen of any of the provisions of this act or any violation of the regulations of the said academy. Any naval officer attached to the academy who shall fail to make such report as provided in this section shall be tried by court-martial for neglect of duty, and, if convicted, he shall be dismissed from the service. Any civilian instructor attached to the academy who shall fail to make such report as provided in this section shall be dismissed by the superintendent of the academy upon the approval of the Secretary of the Navy.

"SEC. 6. That this act shall take effect from the date of its approval, but no midshipman now connected with the United States Naval Academy shall, by reason of its enactment, be punished for any offense heretofore committed otherwise than in pursuance of the sentence of a court-martial if by existing law such sentence would be now necessary for such punishment or punished more severely than is now by law allowed for any offense heretofore committed: *Provided*, That any midshipman now in said Naval Academy may waive his right to trial by court-martial under existing law for any offense of hazing heretofore committed and may accept punishment under the provisions of section two of this act."

By an act of Congress, June 29, 1906, it was provided that—

“Hereafter, the Secretary of the Navy shall, as soon as possible after the first day of June of each year preceding the graduation of the midshipmen on the succeeding year, notify in writing each Senator, Representative, and Delegate in Congress of any vacancy that will exist at the Naval Academy because of such graduation, or that may occur for other reasons, and which he shall be entitled to fill by nomination of a candidate and one or more alternates therefor. The nomination of a candidate and alternate or alternates to fill said vacancy shall be made upon the recommendation of the Senator, Representative, or Delegate, if such recommendation is made by the fourth day of March of the year following that in which said notice in writing is given, but if it is not made by that time the Secretary of the Navy shall fill the vacancy by appointment of an actual resident of the State, congressional district, or Territory, as the case may be, in which the vacancy will exist, who shall have been for at least two years immediately preceding the date of his appointment an actual and bona fide resident of the State, congressional district, or Territory in which the vacancy will exist, and of legal qualification under the law as now provided. In cases where by reason of a vacancy in the membership of the Senate or House of Representatives or by the death or declination of a candidate for admission to the academy there occurs or is about to occur at the academy a vacancy from any State, district, or Territory that can not be filled by nomination as herein provided, the same may be filled as soon thereafter and before the final entrance examination for the year as the Secretary of the Navy may determine. The candidates allowed for the District of Columbia and all candidates appointed at large, together with alternates therefor, shall be selected by the President within the period herein prescribed for nomination of other candidates: *Provided*, That the President may select a candidate for the District of Columbia for the year nineteen hundred and eight.

“No person shall be admitted for instruction at the Naval Academy at Annapolis from any foreign country except upon authority of law hereafter enacted.”

By an act of Congress approved March 7, 1912, it was provided—

“That the course at the Naval Academy shall be four years, and midshipmen on graduation shall be commissioned ensigns: *Provided*, That midshipmen now performing two years’ service at sea in accordance with existing law shall be commissioned forthwith as ensigns from the date of the passage of this act: *And provided*, That those midshipmen of the class which was graduated in nineteen hundred and nine, who have completed two years’ service afloat, and who are due for promotion, shall be commissioned ensigns to take rank with the other members of their class, according to their standing as determined by their final multiples, respectively, for the six years’ course, from the fifth day of June, nineteen hundred and eleven, the date of rank to which they were entitled prior to the passage of this act: *And provided further*, That no back pay or allowances shall result by reason of the passage of this act.”

The class graduating from the Naval Academy June, 1912, was the first class to be graduated as ensigns.

By an act of Congress approved July 9, 1913, it was provided—

“That after June thirtieth, nineteen hundred and thirteen, and until June thirtieth, nineteen hundred and nineteen, there shall be allowed at the Naval Academy two midshipmen for each Senator, Representative, and Delegate in Congress, one for Porto Rico, two for the District of Columbia, and ten appointed each year at large: *Provided*, That the midshipmen on graduation shall be commissioned ensigns in the Navy or may be assigned by the Secretary of the Navy to fill vacancies in the lowest commissioned grades of the Marine Corps or Staff Corps of the Navy.”

By an act of Congress passed June 30, 1914, it was provided—

"Hereafter, in addition to the appointments of midshipmen to the United States Naval Academy as now prescribed by law, the Secretary of the Navy is allowed fifteen appointments annually from the enlisted men of the Navy who are citizens of the United States and not more than twenty years of age on the date of entrance to the Naval Academy, and who shall have served not less than one year as enlisted men on the date of entrance: *Provided*, That such appointments shall be made in the order of merit from candidates who have in competition with each other passed the mental examination now or hereafter required by law for entrance to the Naval Academy, and who passed the physical examination required before entrance under existing law."

An act of Congress approved February 15, 1916, reads as follows:

"*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled*, That hereafter there shall be allowed at the United States Naval Academy three midshipmen for each Senator, Representative, and Delegate in Congress, one for Porto Rico, two for the District of Columbia, ten appointed each year at large, and fifteen appointed annually from enlisted men of the Navy, as now authorized by law.

"SEC. 2. That all acts or parts of acts inconsistent with the provisions of this act are hereby repealed."

Public Resolution, No. 7, Sixty-fourth Congress, approved February 15, 1916, provides as follows:

"*Resolved by the Senate and House of Representatives of the United States of America in Congress assembled*, That the Secretary of the Navy be, and he hereby is, authorized to permit Mr. Carlos Hevia y Reyes Gavilan, a citizen of Cuba, to receive instruction at the United States Naval Academy at Annapolis: *Provided*, That no expense shall be caused to the United States thereby, and that the said Carlos Hevia y Reyes Gavilan shall agree to comply with all regulations for the police and discipline of the academy, to be studious, and to give his utmost efforts to accomplish the course in the various departments of instruction, and that the said Carlos Hevia y Reyes Gavilan shall not be admitted to the academy until he shall have passed the mental and physical examinations prescribed for candidates from the United States, and that he shall be immediately withdrawn if deficient in studies, or conduct, and so recommended by the academic board."

An act of Congress approved August 29, 1916, provides as follows:

"Hereafter, in addition to the appointment of midshipmen to the United States Naval Academy, as now prescribed by law, the President is hereby allowed fifteen appointments annually instead of ten as now prescribed by law, and the Secretary of the Navy is allowed twenty-five appointments annually instead of fifteen as now prescribed by law, the latter to be appointed from the enlisted men of the Navy who are citizens of the United States, and not more than twenty years of age on the date of entrance to the Naval Academy, and who shall have served not less than one year as enlisted men on the date of entrance: *Provided*, That such appointments shall be made in the order of merit from candidates who have in competition with each other passed the mental examination now or hereafter required by law for entrance to the Naval Academy and who passed the physical examinations required before entrance under existing laws.

"That hereafter the Secretary of the Navy is authorized to permit not exceeding four Filipinos, to be designated, one for each class, by the Governor General of the Philippine Islands, to receive instruction at the United States Naval Academy at Annapolis, Maryland: *Provided*, That the Filipinos undergoing instruction, as herein authorized, shall receive the same pay, allowances, and emoluments, to be paid out of the same appropriations, and shall be subject to

the same rules and regulations governing admission, attendance, discipline, resignation, discharge, dismissal, and graduation as are authorized by law and regulation for midshipmen appointed from the United States, but the Filipino midshipmen herein authorized shall not be entitled to appointment to any commissioned office in the United States Navy by reason of their graduation from the Naval Academy.

"Provided further, That no midshipman at the United States Naval Academy or cadet at the United States Military Academy who fails to graduate therefrom shall be eligible for appointment as a commissioned officer in the Marine Corps until after the graduation of the class of which he was a member."

An act of Congress approved March 4, 1917, provides as follows:

"Hereafter, in addition to the appointment of midshipmen to the United States Naval Academy, as now prescribed by law, the Secretary of the Navy is allowed one hundred appointments annually instead of twenty-five as now prescribed by law, to be appointed from the enlisted men of the Navy who are citizens of the United States, and not more than twenty years of age on the date of entrance to the Naval Academy, and who shall have served not less than one year as enlisted men on the date of entrance: *Provided,* That such appointments shall be made in the order of merit from candidates who have, in competition with each other, passed the mental examination now or hereafter required by law for entrance to the Naval Academy, and who passed the physical examination before entrance under existing laws.

"The President, in his discretion, is authorized to reduce the course of instruction at the Naval Academy from four to three years for a period of two years from the date of the approval of this act, and may during said two years graduate classes which have completed a three-year course."

An act of Congress approved April 25, 1917, reads as follows:

"AN ACT To increase the number of midshipmen at the Naval Academy until September first, nineteen hundred and eighteen

"Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That, in addition to the number of midshipmen now authorized by law, there shall be appointed during the period from the date of passage of this act until September first, nineteen hundred and eighteen, one additional midshipman for each Senator, Representative, and Delegate in Congress. Nominations shall be made for these vacancies by the Senators, Representatives, and Delegates concerned for any regular or special examination that may be ordered before that date."

An act of Congress approved December 20, 1917, reads as follows:

"Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That hereafter there shall be allowed at the United States Naval Academy five midshipmen for each Senator, Representative, and Delegate in Congress, one for Porto Rico, two for the District of Columbia, fifteen appointed each year at large, and one hundred appointed annually from enlisted men of the Navy, as now authorized by law.

"Sec. 2. That all acts or parts of acts inconsistent with the provisions of this act are hereby repealed."

An act of Congress approved April 2, 1918, reads as follows:

"Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the President be, and he is hereby, authorized, until August first, nineteen hundred and twenty-one, to reduce, in his discretion, the course of instruction at the United States Naval Academy from four to three years and to graduate classes which have completed such reduced courses of instruction."

The following classes were graduated in accordance with the act of Congress of April 2, 1918, authorizing a reduction in the course:

Class	Date graduated	Members graduated
1917-----	Mar. 29, 1917	182
1918-----	June 28, 1917	199
1919-----	June 6, 1918	199
1920-----	June 6, 1919	460
1921 (first half)-----	June 3, 1920	286

On June 6, 1919, the class of 1921 was divided, and the first half, according to general merit for the third-class year, became the first class and continued the three years' course; the second half became the second class and resumed the four years' course.

An act of Congress approved May 14, 1918, reads as follows:

"AN ACT To fix the age limits for candidates for admission to the United States Naval Academy

"Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That hereafter all candidates for admission to the Naval Academy must be not less than sixteen years of age nor more than twenty years of age on April first of the calendar year in which they enter the academy: Provided, That the foregoing shall not apply to candidates for midshipmen designated for entrance to the academy in nineteen hundred and eighteen."

An act of Congress approved July 11, 1919, reads as follows:

"Section 1 of the act entitled 'An act to increase the number of midshipmen at the United States Naval Academy,' approved December 20, 1917, is hereby amended so as to read as follows: That hereafter there shall be allowed at the United States Naval Academy five midshipmen for each Senator, Representative, Delegate in Congress, and Resident Commissioner from Porto Rico, and five for the District of Columbia, fifteen appointed each year at large, and one hundred appointed annually from enlisted men of the Navy, and members of the Naval Reserve Force on active duty, as now authorized by law."

This act also provides that all midshipmen entering the Naval Academy subsequent to June 1, 1919, shall be allowed mileage, at 5 cents per mile, while proceeding from their homes to the Naval Academy for examination and appointment as midshipmen, and that the pay of midshipmen shall hereafter be \$780 per annum.

The following clause was contained in the deficiency act approved June 5, 1920:

"That until otherwise provided by law no midshipman found deficient at the close of the last and succeeding academic terms shall be involuntarily discontinued at the Naval Academy or in the service unless he shall fail upon reexamination in the subjects in which found deficient at an examination to be held at the beginning of the next and succeeding academic terms, and the Secretary of the Navy shall provide for the special instruction of such midshipmen in the subjects in which found deficient during the period between academic terms."

A clause in the naval appropriation bill, act of July 12, 1921, provides that a candidate for midshipmen so desiring may receive a credit of \$250 upon entrance toward defraying the entering expenses.

INSTRUCTIONS TO CANDIDATES FOR MIDSHIPMEN REGARDING ENTRANCE DEPOSIT

Each candidate who has qualified mentally and physically must, before being admitted as a midshipman, deposit with the midshipmen's storekeeper the sum of \$100, to be used in part payment to cover cost of uniforms, clothing, textbooks, etc. The amount deposited is not refunded but is expended for clothing and textbooks, which become the property of the midshipman.

An act of Congress approved July 12, 1921, reads as follows: "*Provided*, That hereafter each new midshipman shall, upon admission to the Naval Academy, be credited with the sum of \$250 to cover the cost of his initial clothing and equipment issue, to be deducted subsequently from his pay: *Provided further*, That the foregoing proviso shall apply to midshipmen who enter the Naval Academy during the period between June 20, 1921, and the date of the approval of this act." This sum is needed in addition to the \$100 cash deposit referred to above to complete paying for the uniforms, clothing, textbooks, etc., required before a midshipman enters upon his studies. This amount is deducted from the midshipman's pay in monthly installments. Any midshipman may, however, immediately after entering the academy repay this amount in full from his own funds and thus obviate the necessity of having a certain amount deducted monthly from his pay for this purpose. It is urgently recommended that all those midshipmen financially able to do so make the repayment as soon as possible after entering the academy.

An act providing for the readmission of certain deficient midshipmen to the United States Naval Academy, approved October 22, 1921, reads as follows:

"Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the Secretary of the Navy is authorized, upon application, to admit to and reinstate in the United States Naval Academy, subject to examination as to physical qualifications, as provided by law, but waiving the provisions of law as to age requirements, all former midshipmen at the United States Naval Academy found deficient at the end of the first term of the academic year 1920-21 whose resignations were asked for and received by the Superintendent of the Naval Academy: *Provided*, That they shall upon admission be placed in the class one year behind their former class in each case: *Provided further*, That said midshipmen affected by this act must signify their acceptance of the benefits thereof by presenting themselves for physical examination within one month of the date of its approval, and if found qualified will enter the Naval Academy immediately.

"SEC. 2. That the clause in the act approved June 5, 1920 (Forty-first Statutes, p. 1028), entitled 'An act making appropriations to supply deficiencies in appropriations for the fiscal year ending June 30, 1920, and for other purposes,' which reads as follows: 'That until otherwise provided by law no midshipman found deficient at the close of the last and succeeding academic terms shall be involuntarily discontinued at the Naval Academy or in the service unless he shall fail upon reexamination in the subjects in which found deficient at an examination to be held at the beginning of the next and succeeding academic terms, and the Secretary of the Navy shall provide for the special instruction of such midshipmen in the subjects in which found deficient during the period between academic terms,' be, and the same hereby is, repealed, and section 1519 of the Revised Statutes restored to its full force and effect."

Public Resolution No. 72, Sixty-seventh Congress, approved September 18, 1922, provides as follows:

"Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That the Secretary of the Navy be, and hereby is, authorized to permit Mr. Willem van Doorn, a subject of the Netherlands, to

receive instruction at the United States Naval Academy at Annapolis: *Provided*, That no expense shall be caused to the United States thereby, and that the said Willem van Doorn shall agree to comply with all regulations for the police and discipline of the academy, to be studious, and to give his utmost efforts to accomplish the course in the various departments of instruction, and that the said Willem van Doorn shall not be admitted to the academy until he shall have passed the mental and physical examinations prescribed for candidates from the United States, and that he shall be immediately withdrawn if deficient in studies or conduct and so recommended by the academic board."

An act of Congress approved January 22, 1923, reads as follows:

"That no part of this appropriation shall be available for the pay of any midshipmen whose admission, subsequent to the class entering the Naval Academy next after the approval of this act, would result in exceeding at any time an allowance of three midshipmen for each Senator, Representative, and Delegate in Congress; of one midshipman for Porto Rico, a native of the island, appointed on nomination of the governor, and of one midshipman from Porto Rico, appointed on the nomination of the Resident Commissioner; and of two midshipmen for the District of Columbia: *Provided further*, That nothing herein shall be construed to repeal or modify in any way existing laws relative to the appointment of midshipmen at large or from the enlisted personnel of the naval service."

An act of Congress approved May 28, 1924, reads as follows:

"That no part of this appropriation shall be available for the pay of any midshipmen whose admission subsequent to February 9, 1924, would result in exceeding at any time an allowance of three midshipmen for each Senator, Representative, and Delegate in Congress; of one midshipman for Porto Rico, a native of the island, appointed on nomination of the governor, and of two midshipmen from Porto Rico appointed on nomination of the Resident Commissioner; and of two midshipmen for the District of Columbia: *Provided further*, That nothing herein shall be construed to repeal or modify in any way existing laws relative to the appointment of midshipmen at large or from the enlisted personnel of the naval service."

An act of Congress approved February 11, 1925, reads as follows:

"That no part of this appropriation shall be available for the pay of any midshipmen whose admission subsequent to December 13, 1924, would result in exceeding at any time an allowance of three midshipmen for each Senator, Representative, and Delegate in Congress; of one midshipman for Porto Rico, a native of the island, appointed on nomination of the governor, and of two midshipmen from Porto Rico, appointed on nomination of the Resident Commissioner; and of two midshipmen for the District of Columbia: *Provided further*, That nothing herein shall be construed to repeal or modify in any way existing laws relative to the appointment of midshipmen at large or from the enlisted personnel of the naval service."

An act of Congress approved February 28, 1925, reads as follows:

"That hereafter the Secretary of the Navy is authorized to appoint midshipmen to the Naval Academy from the enlisted men of the Naval Reserve and Marine Corps Reserve under similar conditions as prescribed by law for appointments from enlisted men of the Navy: *Provided*, That not more than twenty-five midshipmen shall be appointed in any one year under the authority contained in this section." (Sec. 8, Public No. 512—H. R. 9634.)

An act of Congress approved May 21, 1926, reads as follows:

"That no part of this appropriation shall be available for the pay of any midshipmen whose admission subsequent to January 13, 1926, would result in exceeding at any time an allowance of three midshipmen for each Senator, Representative, and Delegate in Congress; of one midshipman for Porto Rico, a native

of the island, appointed on nomination of the governor, and of three midshipmen from Porto Rico, appointed on nomination of the Resident Commissioner; and of two midshipmen for the District of Columbia: *Provided further*, That nothing herein shall be construed to repeal or modify in any way existing laws relative to the appointment of midshipmen at large from the enlisted personnel of the naval service or from the Naval Reserve: *And provided further*, That in computing for any purpose the length of service of any officer of the Navy, of the Marine Corps, of the Coast Guard, of the Coast and Geodetic Survey, or of the Public Health Service, who was appointed to the United States Naval Academy or to the United States Military Academy after March 4, 1913, the time spent at either academy shall not be counted."

An act of Congress approved June 8, 1926, reads as follows:

"That the number of cadets now authorized by law at the United States Military Academy, and the number of midshipmen now authorized by law at the United States Naval Academy, are each hereby increased by forty from the United States at large, to be appointed by the President from among the sons of officers, soldiers, sailors, and marines of the Army, Navy, and Marine Corps of the United States who were killed in action or died prior to July 2, 1921, of wounds or injuries received or disease contracted in line of duty during the World War: *Provided*, That one-half shall be appointed from among the sons of officers, and one-half from among the sons of warrant officers, soldiers, sailors, and marines of the Army, Navy, and Marine Corps." (Public Act 348.)

An act of Congress approved February 26, 1927, reads as follows:

"That the act entitled 'An act to fix the age limits for candidates for admission to the United States Naval Academy,' approved May 14, 1918, be amended by the addition of the following proviso: '*Provided further*, That the foregoing shall not be held to exclude the admission of a candidate the twentieth anniversary of whose birth occurs on the 1st day of April of the calendar year in which he shall enter.'"

An act of Congress approved May 21, 1928, reads as follows:

"That no part of this appropriation shall be available for the pay of any midshipmen whose admission subsequent to March 21, 1928, would result in exceeding at any time an allowance of four midshipmen for each Senator, Representative, and Delegate in Congress; of one midshipman for Porto Rico, a native of the island, appointed on nomination of the governor, and of four midshipmen from Porto Rico, appointed on nomination of the Resident Commissioner; and of two midshipmen for the District of Columbia: *Provided further*, That nothing herein shall be construed to repeal or modify in any way existing laws relative to the appointment of midshipmen at large, from the enlisted personnel of the naval service, or from the Naval Reserve."

An act of Congress approved May 28, 1928, reads as follows:

"*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled*, That hereafter there shall be allowed at the United States Naval Academy, in addition to those allowed by existing law, midshipmen appointed at large by the Vice President of the United States, equivalent in number to those allowed for each United States Senator."

An act of Congress approved June 8, 1928, reads as follows:

"*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled*, That the Secretary of the Navy is authorized and directed to reinstate Larry Cardwell in the United States Naval Academy, of which he was a midshipman at the time of his discharge on November 19, 1926; the said Larry Cardwell to become a member of the class of 1930 on the date of reinstatement, and to be accorded all rights, privileges, and benefits to which he would have been entitled had he not been so discharged."

SUPERINTENDENTS OF THE UNITED STATES NAVAL ACADEMY

	Assumed command
Commander Franklin Buchanan.....	Sept. 3, 1845
Commander George P. Upshur.....	Mar. 15, 1847
Commander Cornelius K. Stribling.....	July 1, 1850
Commander Louis M. Goldsborough.....	Nov. 1, 1853
Capt. George S. Blake.....	Sept. 15, 1857
Rear Admiral David D. Porter.....	Sept. 9, 1865
Commodore John L. Worden.....	Dec. 1, 1869
Rear Admiral Christopher R. P. Rodgers.....	Sept. 22, 1874
Commodore Foxhall A. Parker.....	July 1, 1878
Rear Admiral George B. Balch.....	Aug. 2, 1879
Rear Admiral Christopher R. P. Rodgers.....	June 13, 1881
Capt. Francis M. Ramsay.....	Nov. 14, 1881
Commander William T. Sampson.....	Sept. 9, 1886
Capt. Robert L. Phythian.....	June 13, 1890
Capt. Philip H. Cooper.....	Nov. 15, 1894
Rear Admiral Frederick V. McNair.....	July 15, 1898
Commander Richard Wainwright.....	Mar. 15, 1900
Capt. Willard H. Brownson.....	Nov. 6, 1902
Rear Admiral James H. Sands.....	July 1, 1905
Capt. Charles J. Badger.....	July 15, 1907
Capt. John M. Bowyer.....	June 10, 1909
Capt. John H. Gibbons.....	May 15, 1911
Capt. William F. Fullam.....	Feb. 7, 1914
Capt. Edward W. Eberle.....	Sept. 20, 1915
Capt. Archibald H. Scales.....	Feb. 12, 1919
Rear Admiral Henry B. Wilson.....	July 5, 1921
Rear Admiral Louis M. Nulton.....	Feb. 23, 1925
Rear Admiral Samuel S. Robison.....	June 16, 1928

BOARD OF VISITORS

BY THE PRESIDENT

Mr. Mark Sullivan.	Mr. Arthur J. Draper.
Rear Admiral Henry T. Mayo, U. S. N., (retired). ¹	Mr. John Borden.
Mr. W. B. Storey.	Mr. George Cole Scott.
	Dr. M. L. Brittain.

BY THE VICE PRESIDENT

Senator Frederick Hale. ²	Senator Park Trammell. ²
Senator Jesse H. Metcalf.	Senator C. C. Dill. ²
Senator Thomas D. Schall.	

BY THE SPEAKER OF THE HOUSE

Representative Fred A. Britten. ²	Representative Robert L. Bacon.
Representative Guy U. Hardy.	Representative Morgan G. Sanders.
Representative A. Piatt Andrew.	Representative Sol Bloom.

Commander W. N. Richardson, jr., United States Navy
Secretary to Board of Visitors

¹ Chairman.

² Were not present.

ACADEMIC CALENDAR 1929-30

1929		
September 27-----	Beginning of first term-----	Friday.
1930		
February 3-----	Beginning of second term-----	Monday.
February 19-----	Examination of candidates-----	Wednesday.
April 16-----	do-----	Do.
May 29-----	End of academic year-----	Thursday.
May 30 to June 5---	Graduation week-----	Friday to Thursday.
June 5-----	Graduation day-----	Thursday.
June 6-----	Beginning of summer term-----	Friday.
September 25-----	End of summer term-----	Thursday.
September 26-----	Beginning of academic year 1930-31-----	Friday.

The academic months for 1929-30 will end as follows:

FIRST TERM		SECOND TERM	
October-----	October 26.	February-----	March 1.
November-----	November 23.	March-----	March 29.
December-----	December 21.	April-----	April 26.
January-----	February 1.	May-----	May 29.

Holidays:

Thanksgiving, Thursday, November 28, 1929.
 Christmas holiday, December 21, 1929, to January 1, 1930.
 Washington's Birthday, Saturday, February 22, 1930.
 Decoration Day, Friday, May 30, 1930.

Lent:

Ash Wednesday, March 5.
 Good Friday, April 18.
 Easter Sunday, April 20.

Date for Board of Visitors, April 28-May 1, (inclusive).

Calendar for 1929 and 1930

BOLD FIGURES DENOTE END OF ACADEMIC MONTH

SEPTEMBER							APRIL						
Su.	M.	T.	W.	T.	F.	S.	Su.	M.	T.	W.	T.	F.	S.
1	2	3	4	5	6	7			1	2	3	4	5
8	9	10	11	12	13	14	6	7	8	9	10	11	12
15	16	17	18	19	20	21	13	14	15	16	17	18	19
22	23	24	25	26	27	28	20	21	22	23	24	25	26
29	30						27	28	29	30			
OCTOBER							MAY						
		1	2	3	4	5					1	2	3
6	7	8	9	10	11	12	4	5	6	7	8	9	10
13	14	15	16	17	18	19	11	12	13	14	15	16	17
20	21	22	23	24	25	26	18	19	20	21	22	23	24
27	28	29	30	31			25	26	27	28	29	30	31
NOVEMBER							JUNE						
					1	2	1	2	3	4	5	6	7
3	4	5	6	7	8	9	8	9	10	11	12	13	14
10	11	12	13	14	15	16	15	16	17	18	19	20	21
17	18	19	20	21	22	23	22	23	24	25	26	27	28
24	25	26	27	28	29	30	29	30					
DECEMBER							JULY						
1	2	3	4	5	6	7			1	2	3	4	5
8	9	10	11	12	13	14	6	7	8	9	10	11	12
15	16	17	18	19	20	21	13	14	15	16	17	18	19
22	23	24	25	26	27	28	20	21	22	23	24	25	26
29	30	31					27	28	29	30	31		
JANUARY							AUGUST						
		1	2	3	4		3	4	5	6	7	1	2
5	6	7	8	9	10	11	10	11	12	13	14	15	16
12	13	14	15	16	17	18	17	18	19	20	21	22	23
19	20	21	22	23	24	25	24	25	26	27	28	29	30
26	27	28	29	30	31		31						
FEBRUARY							SEPTEMBER						
2	3	4	5	6	7	1	7	1	2	3	4	5	6
9	10	11	12	13	14	8	14	8	9	10	11	12	13
16	17	18	19	20	21	15	21	15	16	17	18	19	20
23	24	25	26	27	28	22	28	22	23	24	25	26	27
MARCH							OCTOBER						
2	3	4	5	6	7	1			1	2	3	4	
9	10	11	12	13	14	8	5	6	7	8	9	10	11
16	17	18	19	20	21	15	12	13	14	15	16	17	18
23	24	25	26	27	28	22	19	20	21	22	23	24	25
30	31					29	26	27	28	29	30	31	

DEPARTMENTAL ASSIGNMENTS OF OFFICERS AND CIVILIAN INSTRUCTORS ATTACHED TO THE UNITED STATES NAVAL ACADEMY, 1929-30

ADMINISTRATION

Rear Admiral SAMUEL S. ROBISON, *Superintendent*.
 Lieut. Commander DANIEL E. BARBEY, *Aide for Academic Activities*.
 Lieut. Commander ALBERT H. ROOKS, *Aide*.
 Mr. PETER H. MAGRUDER, *Secretary, Naval Academy*.

BUILDINGS AND GROUNDS

Capt. JOHN H. NEWTON, *Aide, In Charge of Buildings and Grounds*.
 Lieut. Commander ELLIOTT B. NIXON, *Assistant to Aide in Charge of Buildings and Grounds*.
 Lieut. Commander HUGO C. FISCHER (C. E. C.), *Assistant to Aide in Charge of Buildings and Grounds*.

EXECUTIVE DEPARTMENT

Capt. CHARLES P. SNYDER, <i>Commandant of Midshipmen</i> .	Lieut. RALSTON B. VANZANT.
Commander JOHN S. BARLEON.	Lieut. (J. G.) ROBERT B. ROTHWELL.
Commander HENRY G. COOPER, Jr.	Lieut. (J. G.) BYRON S. ANDERSON.
Commander JOSEPH M. DEEM.	Capt. ROLAND W. SCHUMANN (S. C.), <i>Midshipmen's Commissary Officer</i> .
Lieut. Commander CHARLTON E. BATTLE, Jr.	Commander SMITH HEMPSTONE (S. C.), <i>Midshipmen's Storekeeper and Pay Officer</i> .
Lieut. Commander DAVIS DE TRIVILLE.	Lieut. THEODORE M. STOCK (S. C.), <i>Assistant to Midshipmen's Commissary Officer</i> .
Lieutenant Commander LEO H. THEBAUD.	Lieut. EVERETT W. BROWN (S. C.), <i>Assistant to Midshipmen's Commissary Officer</i> .
Lieut. Commander BENJAMIN F. PERRY.	Lieut. WILLIAM H. PHILLIPS (S. C.), <i>in charge of Navy Commissary Store</i> .
Lieut. Commander ARCHIE E. GLANN.	Chief Pay Clerk THOMAS E. WRIGHT, <i>Navy Commissary Store</i> .
Lieut. Commander LEON S. FISKE.	Asst. Prof. JOSEPH W. CROSLY.
Lieut. CHARLES W. WEITZEL.	
Lieut. HAROLD L. CHALLENGER.	
Lieut. CHARLES L. ANDREWS, Jr.	
Lieut. EDWIN D. GRAVES.	
Lieut. LEO L. PACE.	

DEPARTMENT OF SEAMANSHIP AND FLIGHT TACTICS

Commander WILLIAM S. FARBER.	Lieut. Commander LAURANCE T. DU BOSE.
Commander FRANKLIN P. CONGER.	Lieut. Commander KARL R. SHEARS.
Commander WILLIAM N. RICHARDSON, Jr.	Lieut. Commander ROBERT B. MATTHEWS.
Lieut. Commander BOLIVAR V. MEADE.	Lieut. Commander VERNON F. GRANT.
Lieut. Commander ROBERT M. HINCKLEY.	Lieut. PETER K. FISCHLER.
Lieut. Commander HIESTER HOOGEWERFF.	Lieut. ROBERT L. MITTEN.
	Lieut. HERBERT R. SOBEL.

Lieut. ELMER R. RUNQUIST.
 Lieut. JOSEPH C. HUBBARD.
 Lieut. JOHN A. UPSHUR.
 Lieut. JENNINGS COURTS.

Lieut. CARL F. ESPE.
 Lieut. (J. G.) JOSEPH L. KANE.
 Chief Boatswain FREDERICK W. FIL-
 BRY.

DEPARTMENT OF ORDNANCE AND GUNNERY

Commander WILLIAM T. SMITH.
 Commander OSCAR SMITH.
 Lieut. Commander ROBERT H. MAURY.
 Lieut. Commander THEODORE T. PAT-
 TERTON.
 Lieut. JOHN S. PHILLIPS.
 Lieut. ERNEST E. HERRMANN.
 Lieut. JOHN J. PATTERSON, 3d.
 Lieut. ROBERT B. CRICHTON.
 Lieut. VAN FITCH RATHBUN.
 Lieut. THEODORE G. HAFF.

Lieut. EDWIN W. SCHELL.
 Lieut. NICHOLAS B. VAN BERGEN.
 Lieut. WILLIAM V. HAMILTON.
 Lieut. GEOFFREY E. SAGE.
 Lieut. JAMES P. CLAY.
 Lieut. GUS R. BERNER, Jr.
 Lieut. WILLIAM B. AULT.
 Lieut. HOWARD D. MCINTOSH.
 Lieut. (J. G.) MELLISH M. LINDSAY, Jr.
 Chief Gunner WALTER J. LOVE.

DEPARTMENT OF NAVIGATION

Capt. ROSCOE C. MACFALL.
 Commander ROBERT E. ROGERS.
 Lieut. Commander JAMES A. LOGAN.
 Lieut. Commander WALDEN L. AINS-
 WORTH.
 Lieut. Commander MILES P. REFO, Jr.
 Lieut. Commander JOHN H. HOLT, Jr.
 Lieut. Commander FRED K. ELDER.

Lieut. Commander LAURENCE WILD.
 Lieut. Commander HORACE D. CLARKE.
 Lieut. Commander RALPH F. SKYL-
 STEAD.
 Lieut. VICTOR C. BARRINGER, Jr.
 Lieut. WILLIAM A. S. MACKLIN.
 Lieut. WILLIAM K. PHILLIPS.
 Lieut. RALPH C. ALEXANDER.

DEPARTMENT OF ENGINEERING AND AERONAUTICS

Commander GEORGE M. RAVENSCROFT.
 Commander WORRALL R. CARTER.
 Lieut. Commander JAY L. KERLEY.
 Lieut. Commander RICHARD H. BOOTH.
 Lieut. Commander LAWRENCE P.
 BISCHOFF.
 Lieut. Commander HANS ERTZ.
 Lieut. Commander CORNELIUS W.
 FLYNN.
 Lieut. Commander CARROLL W.
 HAMILL.
 Lieut. Commander NELSON N. GATES.
 Lieut. Commander CASSIN YOUNG.
 Lieut. Commander HOUSTON L. MA-
 PLES.
 Lieut. Commander PHILIP W. WARREN.
 Lieut. JULIAN D. WILSON.
 Lieut. ROBERT P. BRISCOE.
 Lieut. WALTON R. READ.
 Lieut. PAUL H. TALBOT.
 Lieut. JOHN F. GILLON.
 Lieut. CHARLES A. WHITEFORD.

Lieut. CHARLES F. ERCK.
 Lieut. DELAMER L. JONES.
 Lieut. HARRY L. BIXBY.
 Lieut. WILLIAM R. COOKE.
 Lieut. GEORGE G. HERRING, Jr.
 Lieut. THOMAS M. DELL, Jr.
 Lieut. WILEY N. HAND.
 Lieut. ROGER E. NELSON.
 Lieut. AUSTIN S. KEETH.
 Lieut. MARION N. LITTLE.
 Lieut. EDWARD J. O'KANE.
 Commander THEODORE W. JOHNSON
 (Math.).
 Lieut. GEORGE C. CALNAN (C. C.).
 Lieut. FLOYD A. TUSLER (C. C.).
 Lieut. OLIVER D. COLVIN, Jr. (C. C.).
 Lieut. WILLIAM J. MURPHY (C. C.).
 Machinist JOHN M. FLAHERTY.
 Prof. CLARENCE P. BOLGIANO.
 Asso. Prof. WILLIAM E. FARRELL.
 Asso. Prof. GEORGE BENEZE.

DEPARTMENT OF MATHEMATICS

Commander HENRY E. ROSSELL (C. C.).	Asso. Prof. JAMES B. SCARBOROUGH.
Commander HERBERT L. RICE (Math.).	Asso. Prof. REGINALD C. LAMB.
Lieut. Commander ALLEN G. QUINN.	Asso. Prof. EUGENE S. MAYER.
Lieut. ALLEN D. BROWN.	Asst. Prof. WILLIAM A. CONRAD.
Lieut. DELWYN HYATT.	Asst. Prof. LYMAN M. KELLS.
Lieut. FRANCIS M. ADAMS.	Instructor JAMES R. BLAND.
Prof. CHARLES L. LEIPER.	Instructor WILLIS F. KERN.
Prof. PAUL CAPRON.	Instructor GEORGE A. LYLE.
Prof. JAMES B. EPPES.	Instructor HERMAN C. STÖTZ.
Prof. JAMES N. GALLOWAY.	Instructor JESSE L. CLAYTON.
Prof. ALEXANDER DILLINGHAM.	Instructor ERNEST HAWKINS.
Prof. GUY R. CLEMENTS.	Instructor JOHN RIDOUT, Jr.
Prof. HENRY M. ROBERT, Jr.	Instructor R. C. HENSEN WHEELER.
Asso. Prof. LEVI T. WILSON.	Instructor ARTHUR R. MAUPIN.
Asso. Prof. JOHN TYLER.	

DEPARTMENT OF ELECTRICAL ENGINEERING AND PHYSICS

Capt. WILHELM L. FRIEDEL.	Lieut. LLOYD E. CLIFFORD.
Commander WILLIAMS C. WICKHAM.	Lieut. DANIEL M. MCGURL.
Commander CHARLES E. REORDAN.	Lieut. ALLEN P. MULLINIX.
Lieut. Commander DONALD B. BEARY.	Lieut. JOHN B. LONGSTAFF.
Lieut. Commander ROBERT H. ENGLISH.	Lieut. ALLAN D. BLACKLEDGE.
Lieut. Commander NORMAN SCOTT.	Lieut. MARION C. THOMPSON.
Lieut. Commander LOUIS P. WENZELL.	Lieut. EDWARD I. MCQUISTON.
Lieut. Commander JOHN L. HILL.	Lieut. JULIUS A. McNAMAR.
Lieut. Commander LEWIS J. STECHER.	Lieut. GEORGE W. BAUERNSCHMIDT.
Lieut. Commander MELVILLE C. PAR- TELLO.	Lieut. CHARLES C. PHLEGER.
Lieut. Commander ARNOLD H. BATE- MAN.	Lieut. (J. G.) RALPH T. ZINN.
Lieut. Commander JAMES A. SCOTT.	Lieut. (J. G.) HORATIO D. SMITH.
Lieut. Commander ROBERT G. TOBIN.	Lieut. (J. G.) EDWIN V. RAINES.
Lieut. Commander FRANCIS W. BEN- SON.	Lieut. (J. G.) ROBERT A. KNAPP.
Lieut. GUY B. HOOVER.	Lieut. (J. G.) JOSEPH B. DUNN.
Lieut. JOHN R. SULLIVAN.	Commander PAUL J. DASHIELL (Math.)
Lieut. EDWARD F. MCCARTIN.	Lieut. DE WITT C. REDGRAVE, Jr. (C. C.).
Lieut. JAMES L. FISHER.	Radio Electrician DOUGLAS S. GREEN.
Lieut. JAMES W. WHITFIELD.	Asso. Prof. GORDON D. ROBINSON.
Lieut. RALPH H. HENKLE.	Asso. Prof. JOHN C. GRAY.
	Asso. Prof. DAVID G. HOWARD.
	Asso. Prof. EARL W. THOMSON.

DEPARTMENT OF ENGLISH

Prof. CARROLL S. ALDEN.	Asso. Prof. CHARLES L. LEWIS.
Prof. ALLAN F. WESTCOTT.	Asso. Prof. ROYAL S. PEASE.
Lieut. Commander LEONARD B. AUSTIN.	Asso. Prof. RODERICK S. MERRICK.
Lieut. WILLIAM S. HEATH.	Asst. Prof. WILLIAM A. DARDEN.
Lieut. HARRY H. DERINGER.	Asst. Prof. WILLIAM K. DOTY.
Lieut. WADE DE WEESE.	Asst. Prof. FRED I. MYERS.
Lieut. JASPER T. ACUFF.	Instructor HOWARD P. KELSEY.
Lieut. FRANCIS J. FIRTH.	Instructor RICHARD S. WEST, Jr.
Lieut. JAMES H. MCWILLIAMS.	Instructor ROBERT H. JAMES.
Prof. WALTER B. NORRIS.	Instructor HUGH R. FITCH.
Asso. Prof. HOWARD MCCORMICK.	Instructor ALLEN B. COOK.
Asso. Prof. HENRY F. STURDY.	

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 Commander GRANVILLE B. HOEY.
 Lieut. Commander JAMES G. WARE.
 Lieut. Commander JOHN C. LUSK.
 Lieut. ION PURSELL.
 Lieut. ROSCOE H. HILLENKOETTER.
 Lieut. WILLIAM A. P. MARTIN.
 Lieut. EDMUND KIRBY-SMITH, Jr.
 Lieut. JOSEPH R. BARBARO.
 Lieut. HAROLD F. PULLEN.
 Lieut. GEORGE E. NOLD.
 Lieut. GEORGE D. COOPER.
 Lieut. (J. G.) EDWARD B. ARROYO.
 Lieut. (J. G.) CARLISLE H. THOMPSON.

Prof. ARTURO FERNANDEZ.
 Prof. WILLIAM E. OLIVET.
 Prof. MOLTON A. COLTON.
 Asso. Prof. LUCIEN R. FOURNON.
 Asso. Prof. JOSEPH M. PURDIE.
 Asso. Prof. CLARENCE V. FOWLER.
 Asso. Prof. HENRY BLUESTONE.
 Asst. Prof. DANIEL JORDAN.
 Asst. Prof. PAUL A. LAJOYE.
 Asst. Prof. HOMER B. WINCHELL.
 Instructor GEORGE E. STARNES.
 Instructor EDMUND CASKIE.
 Instructor JOHN A. MAIGRET.
 Instructor WILLIAM H. SEWELL.

DEPARTMENT OF PHYSICAL TRAINING

Commander JONAS H. INGRAM.
 Commander SAMUEL S. PAYNE.
 Lieut. Commander FREDERICK G. REINICKE.
 Lieut. (J. G.) ROBERT S. BERTSCHY.¹
 Ensign JACOB C. SCHWAB.¹
 Ensign CARL L. STEINER.¹
 Ensign HARRY J. HARDWICK.¹
 Ensign JOHN H. CROSS.¹
 Ensign ELLIOTT W. PARISH, Jr.¹
 Ensign THOMAS R. WILSON.¹
 Lieut. Commander JOSEPH E. MALCOMSON (M. C.).²

Chief Instructor LOUIS H. MANG.
 Asst. Chief Instructor GEORGE HEINTZ.
 Asst. Chief Instructor JOHN SCHUTZ.
 Instructor FRANK J. SAZAMA.
 Instructor HENRY ORTLAND, Jr.
 Instructor JOHN N. WILSON.
 Instructor TOM G. TAYLOR.
 Instructor HAMILTON M. WEBB.
 Instructor FRANK L. FOSTER.
 Instructor WALTER AAMOLD.
 Instructor CHARLES S. WALSH.

DEPARTMENT OF HYGIENE

Capt. JAMES C. PRYOR (M. C.).

YARD MEDICAL

Capt. JAMES C. PRYOR (M. C.).
 Commander JOHN B. POLLARD (M. C.).
 Commander WILLARD J. RIDDICK (M. C.).
 Lieut. Commander FRANCIS D. GIBBS (M. C.).
 Lieut. Commander WILLIAM E. CROOKS (M. C.).
 Lieut. FRANK A. HUGHES (M. C.).
 Lieut. JOHN M. BACHULUS (M. C.).
 Lieut. CHARLES C. YANQUELL (M. C.).
 Lieut. (J. G.) WILLIAM R. WHITEFORD (M. C.).

Commander RONALD BARBER (D. C.).
 Lieut. Commander RUFUS A. FERGUSON (D. C.).
 Lieut. Commander GEORGE C. FOWLER (D. C.).
 Lieut. Commander DE WITT C. EMERSON (D. C.).
 Lieut. THEODORE D. ALLAN (D. C.).
 Lieut. (J. G.) ALFRED DINSMORE (D. C.).
 Chief Pharmacist CHESTER O. KIMBALL.

YARD CHAPLAINS

Commander FRANK H. LASH (Ch. C.).

Lieut. Commander BARTHOLOMEW F. HUSKE (Ch. C.).

¹ Temporary duty as coaches.

² Additional duty in department of hygiene.

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Asst. Librarian LOUIS H. BOLANDER.

CURATOR

Prof. HERMAN F. KRAFFT.³

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 Commander CARY W. MAGRUDER.
 Lieut. Commander RALPH G. RISLEY.
 Lieut. Commander RICHARD H. KNIGHT.
 Lieut. Commander THOMAS N. VINSON.
 Lieut. Commander LEON B. SCOTT.
 Lieut. Commander WILLIAM S. POPHAM, Jr.
 Lieut. Commander FORREST B. ROYAL.
 Lieut. Commander WILLIAM F. LOVENTHAL.
 Lieut. Commander BYRON S. DAGUE.
 Lieut. Commander BRUCE P. FLOOD.
 Lieut. SEABURY COOK.
 Prof. RALPH E. ROOT.

Prof. ALBERT F. WAGNER.
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 Prof. CHARLES C. BRAMBLE.
 Asso. Prof. DENNIS KAVANAUGH, Jr.
 Asso. Prof. CHARLES H. RAWLINS.
 Asso. Prof. RALPH S. WILBUR.
 Asso. Prof. CHARLES V. O. TERWIL-
 LIGER.
 Asso. Prof. NORMAN E. WOLDMAN.
 Asst. Prof. G. ROBERT GIET.
 Asst. Prof. PAUL E. HEMKE.
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 Asst. Prof. FRANK E. LA CAUZA.
 Asst. Prof. HARRY J. WINSLOW.

STUDENT OFFICERS—POSTGRADUATE SCHOOL

Lieut. Commander EDWARD B. ROGERS.
 Lieut. FREDERICK S. HOLMES.
 Lieut. CLIFTON E. DENNY.
 Lieut. HARRY W. NEED.
 Lieut. OLTON R. BENNEHOFF.
 Lieut. MALCOLM A. DEANS.
 Lieut. CHAUNCEY R. CRUTCHER.
 Lieut. BENJAMIN W. CLOUD.
 Lieut. FREDERICK S. CONNER.
 Lieut. HARRY L. THOMPSON.
 Lieut. RATCLIFFE C. WELLES.
 Lieut. MAURICE H. STEIN.
 Lieut. RUSSELL M. IHRIG.
 Lieut. JAMES B. SYKES.
 Lieut. ERNEST H. VON HEIMBURG.
 Lieut. WILLIAM H. FERGUSON.
 Lieut. WILLIAM E. CLAYTON.
 Lieut. RICHARD B. TUGGLE.
 Lieut. HENRY R. HERBST.
 Lieut. GEORGE C. DYER.
 Lieut. JAMES J. HUGHES.
 Lieut. STEPHEN K. HALL.
 Lieut. PALMER M. GUNNELL.
 Lieut. BENJAMIN S. BROWN.
 Lieut. SAMUEL S. FRIED.
 Lieut. JAMES C. TAYLOR.
 Lieut. GEORGE E. TWINING.
 Lieut. KENNETH E. BRIMMER.

Lieut. CATO D. GLOVER, Jr.
 Lieut. CHARLES R. WOODSON.
 Lieut. HERBERT C. BEHNER.
 Lieut. WENDELL G. SWITZER.
 Lieut. ARNOLD E. TRUE.
 Lieut. WALTER S. K. TRAPNELL.
 Lieut. SILAS B. MOORE.
 Lieut. KEITH R. BELCH.
 Lieut. FRANKLIN O. JOHNSON.
 Lieut. MELVILLE E. EATON.
 Lieut. MORRIS J. WESTFALL.
 Lieut. EDWARD C. EWEN.
 Lieut. CASPER H. EICKS.
 Lieut. JOEL NEWSOM.
 Lieut. HENRY T. WRAY.
 Lieut. JAMES A. ROBERTS, Jr.
 Lieut. JEFFERSON D. BEARD.
 Lieut. RUTHVEN E. LIBBY.
 Lieut. RICHARD W. DOLE.
 Lieut. LEON J. HUFFMAN.
 Lieut. WILSON P. COGSWELL.
 Lieut. JOHN S. HARPER.
 Lieut. ROBERT E. BLUE.
 Lieut. HAROLD D. BAKER.
 Lieut. WOODSON V. MICHAUX.
 Lieut. THOMAS B. DUGAN.
 Lieut. ARCHIBALD E. UEHLINGER.
 Lieut. DONALD S. EVANS.

³ Additional duty in department of English.

Lieut. EDWARD C. METCALFE.
 Lieut. JOHN H. LEPPERT.
 Lieut. BRADFORD BARTLETT.
 Lieut. THOMAS J. RAFTERY.
 Lieut. JOHN J. O'DONNELL, Jr.
 Lieut. EDWARD C. FORSYTH.
 Lieut. EDWARD R. GARDNER, Jr.
 Lieut. HAROLD E. PARKER.
 Lieut. SAMUEL K. GROSECLOSE.
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 Lieut. (J. G.) JOHN E. FRENCH.
 Lieut. (J. G.) GEORGE E. PALMER.
 Lieut. (J. G.) EMORY P. HYLANT.
 Lieut. (J. G.) CHARLES A. HAVARD.
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 Lieut. (J. G.) HARRY KEELER, Jr.
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 Lieut. (J. G.) CHARLES O. COMP.
 Lieut. (J. G.) SHERMAN R. CLARK.
 Lieut. (J. G.) GERALD U. QUINN.
 Lieut. (J. G.) KARL A. THIEME.
 Lieut. (J. G.) JOHN P. BENNINGTON.
 Lieut. (J. G.) KENMORE M. McMANES.
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 TON.
 Lieut. (J. G.) FREDERICK K. McELROY.
 Lieut. (J. G.) ALBERT C. MURDAUGH.
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 Lieut. (J. G.) KENNETH P. HARTMAN.
 Lieut. (J. G.) ALLEN V. BRES.
 Lieut. (J. G.) PAUL F. DUGAN.
 Lieut. (J. G.) WILLIAM L. HOFF-
 HEINS, Jr.
 Lieut. (J. G.) WILLIAM K. MENDEN-
 HALL, Jr.
 Lieut. (J. G.) JOHN D. KELSEY.
 Lieut. (J. G.) PERCIVAL E. Mc-
 DOWELL.
 Lieut. (J. G.) EDWIN R. DUNCAN.
 Lieut. (J. G.) LOUIS A. REINKEN.
 Lieut. (J. G.) MARVIN M. STEPHENS.

Lieut. (J. G.) PHILIP H. RYAN.
 Lieut. (J. G.) PAUL B. KOONCE.
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 FERTY.
 Lieut. (J. G.) JULIAN J. LEVASSEUR.
 Lieut. (J. G.) HOMER AMBROSE.
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 Lieut. (J. G.) JAMES R. ANDREWS.
 Lieut. (J. G.) TRUMAN J. HEDDING.
 Lieut. (J. G.) CHESTER C. WOOD.
 Lieut. (J. G.) FREDERICK A. L.
 DARTSCH.
 Lieut. (J. G.) CLARENCE E. EKSTROM.
 Lieut. (J. G.) JOHN A. HAYES.
 Lieut. (J. G.) RUFUS E. ROSE, Jr.
 Lieut. (J. G.) ORVILLE F. GREGOR.
 Lieut. (J. G.) LEE R. HERRING.
 Lieut. (J. G.) EUGENE C. ROOK.
 Lieut. (J. G.) GEORGE C. TOWNER.
 Lieut. (J. G.) RALPH E. WILSON.
 Lieut. (J. G.) LOUIS W. NUESSE.
 Lieut. (J. G.) WILLIAM M. COLE.
 Lieut. (J. G.) JOSEPH H. GARVIN.
 Lieut. (J. G.) WILLIAM P. TAMMANY.
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 Lieut. (J. G.) JAMES R. PAHL.
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 Lieut. (J. G.) FORREST R. BUNKER.
 Lieut. (J. G.) WILLIAM B. BAILEY.
 Lieut. (J. G.) JOSEPH P. THEW.
 Lieut. (J. G.) JOHN P. CROMWELL.
 Lieut. (J. G.) FRANK W. MACDONALD.
 Lieut. (J. G.) STEPHEN R. BEDFORD.
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 Lieut. (J. G.) THOMAS C. RAGAN.
 Lieut. (J. G.) HAROLD R. DEMAREST.
 Lieut. (J. G.) HERBERT P. SHELDON.
 Lieut. (J. G.) HARRY BURRIS.
 Lieut. (J. G.) WALTER M. GRAESSER.
 Lieut. (J. G.) JAMES B. HOGLE.
 Lieut. (J. G.) JOHN B. ROONEY.
 Lieut. (J. G.) WILLIAM C. SPRENGER.
 Ensign PHILIP W. SNYDER.
 Ensign ROBERT A. HINNERS.
 Ensign ALLAN L. DUNNING.
 Ensign HERBERT J. PFINGSTAG.
 Ensign ROBERT D. CONRAD.

Ensign JOSEPH F. JELLEY, Jr.
 Ensign THOMAS L. DAVEY.
 Ensign LEROY V. HONSINGER.

Ensign HUNT V. MARTIN.
 Sr. Lieut. DORVAL D. REIS, Brazilian
 Navy.

MARINE BARRACKS

Maj. THOMAS S. CLARKE, U. S. M. C.
 First Lieut. GEORGE F. GOOD, Jr.,
 U. S. M. C.

Second Lieut. HAWLEY C. WATERMAN,
 U. S. M. C.
 Second Lieut. ROBERT B. LUCKEY,
 U. S. M. C.

U. S. S. "REINA MERCEDES," STATION SHIP

Capt. WILLIAM F. HALSEY, Jr.
 Lieut. LAURIE C. PARFITT.
 Lieut. LEO A. KETTERER (S. C.).
 Chief Boatswain THOMAS O. KIRBY.

Boatswain RAYMOND V. SVENDSEN.
 Chief Machinist GEORGE RAHM.
 Chief Carpenter ARTHUR F. WHITTIER.
 Chief Pay Clerk WILLIAM H. GARDNER.

VN SQUADRON 8D5

Lieut. Commander DEWITT C. RAM-
 SEY.

Lieut. CLIFTON A. F. SPRAGUE.
 Lieut. HAROLD M. MARTIN.

VT SQUADRON 9S (TEMPORARY)

Lieut. DANIEL V. GALLERY, Jr.
 Lieut. (J. G.) RALPH W. D. WOODS.
 Lieut. (J. G.) EDWARD S. MULHERON.

Lieut. (J. G.) HALLSTED L. HOPPING.
 Lieut. (J. G.) CHARLES W. OEXLE.
 Chief Boatswain ANTHONY FEHER.

SUPPLY OFFICE

Capt. CHARLES W. ELIASON (S. C.).
 Lieut. EARL F. CODDING (S. C.).

Lieut. JAMES CHAPMAN (S. C.).
 Chief Pay Clerk GEORGE W. DEAN.

NAVAL HOSPITAL

Capt. ARTHUR W. DUNBAR (M. C.).
 Capt. ADDISON B. CLIFFORD (M. C.).
 Capt. THURLOW W. REED (M. C.).
 Lieut. Commander WILLIAM H. MI-
 CHAEL (M. C.).
 Lieut. EARLE E. SULLIVAN (M. C.).

Lieut. ROB R. DOSS (M. C.).
 Lieut. LLOYD R. NEWHOUSER (M. C.).
 Chief Pharmacist EDWARD A. ROZEA.
 Pharmacist JOHN P. T. BENNETT.
 Pharmacist JOSEPH H. BELL.

ENGINEERING EXPERIMENT STATION

Capt. HENRY C. DINGER.
 Lieut. Commander GEORGE K. WEBER.

Lieut. RICHARD O. WILLIAMS.

NAVAL RADIO STATION (HIGH POWER)

Lieut. HENRY D. BAGGETT.

Radio Electrician LUKE W. DU-
 FRESNE.

ACADEMIC BOARD

THE SUPERINTENDENT.
THE COMMANDANT OF MIDSHIPMEN.
THE HEAD OF THE DEPARTMENT OF SEAMANSHIP AND FLIGHT TACTICS.
THE HEAD OF THE DEPARTMENT OF ORDNANCE AND GUNNERY.
THE HEAD OF THE DEPARTMENT OF NAVIGATION.
THE HEAD OF THE DEPARTMENT OF ENGINEERING AND AERONAUTICS.
THE HEAD OF THE DEPARTMENT OF MATHEMATICS.
THE HEAD OF THE DEPARTMENT OF ELECTRICAL ENGINEERING AND PHYSICS.
THE HEAD OF THE DEPARTMENT OF ENGLISH.
THE HEAD OF THE DEPARTMENT OF MODERN LANGUAGES.
THE HEAD OF THE DEPARTMENT OF HYGIENE.
THE HEAD OF THE DEPARTMENT OF PHYSICAL TRAINING.

MIDSHIPMEN OFFICERS AND PETTY OFFICERS, 1929-30

Regimental commander and staff				Bugle corps staff			
Midshipman Commander Jackson, A. McB., Jr.-----	(4) Regimental commander.	Midshipman Lieut. (J. G.) Cable, T. H.-----	(6) Bugle Corps commander.				
Midshipman Lieut. Commander Ennis, W. C.-----	(2) Regimental subcommander.	Midshipman Ensign Horn, P. H.-----	(1) Bugle Corps subcommander.				
Midshipman Lieut. Gladney, D. W., Jr.-----	(6) Regimental adjutant.	Midshipman Chief Petty Officer Long, V. O.-----	(5) Bugle Corps chief petty officer.				
Midshipman Lieut. Ensey, L.-----	(7) Regimental signal officer.						
Midshipman Lieut. (J. G.) Hunt, R. C. D.-----	(4) Regimental commissary.						
Midshipman Lieut. (J. G.) Luckner, P. R.-----	(5) Color bearer (national).						
Midshipman Ensign Smith, H.-----	(3) Color bearer (regimental).						
Midshipman Chief Petty Officer Stretch, D. A.-----	(8) Regimental chief petty officer.						
First battalion		Second battalion		Third battalion		Fourth battalion	
Midshipman Lieut. Commander Gentner, W. E., Jr., (1) battalion commander.	Midshipman Lieut. Moret, P., (4) battalion commander.	Midshipman Lieut. Peterson, M. A., (6) battalion commander.	Midshipman Lieut. Dorsey, J. S., (8) battalion commander.				
Midshipman Lieut. Mulit, L. H., (1) battalion subcommander.	Midshipman Lieut. Wheelchel, D. L., (4) battalion subcommander.	Midshipman Lieut. Hines, W. T., (5) battalion subcommander.	Midshipman Lieut. Moore, R. L., Jr., (7) battalion subcommander.				
Midshipman Lieut. (J. G.) Haley, T. B., (2) battalion adjutant and signal officer.	Midshipman Lieut. (J. G.) Brady, P. H., (3) battalion adjutant and signal officer.	Midshipman Lieut. (J. G.) de Vos, P. L., (6) battalion adjutant and signal officer.	Midshipman Lieut. (J. G.) Corbus, J., (7) battalion adjutant and signal officer.				
Midshipman Ensign Dourw, V. P., (2) battalion commissary and quartermaster.	Midshipman Ensign Morton, D. W., (3) battalion commissary and quartermaster.	Midshipman Ensign Clifton, J. C., (5) battalion commissary and quartermaster.	Midshipman Ensign Moffett, W. A., Jr., (7) battalion commissary and quartermaster.				
Midshipman Chief Petty Officer McKean, W. B., (2) battalion chief petty officer.	Midshipman Chief Petty Officer Heyward, A. S., Jr., (3) battalion chief petty officer.	Midshipman Chief Petty Officer Koopke, L. L., (6) battalion chief petty officer.	Midshipman Chief Petty Officer Grantham, E. B., Jr., (8) battalion chief petty officer.				
First company	Second company	Third company	Fourth company	Fifth company	Sixth company	Seventh company	Eighth company
Hughes, T. B.-----	O'Beirne, E.-----	Hightley, F. E., Jr.-----	Phillips, W. B.-----	Johnson, R. W.-----	Allen, W. Y., Jr.-----	MacGregor, E. J., 3d.-----	Sanders, E. R.-----
Hindman, J. A. E.-----	Knoll, D. W.-----	Simons, M. H., 3d.-----	Pieczentkowski, H. A.-----	Renfro, E. C.-----	Herndon, G. G.-----	Burns, M. C.-----	Butler, W. C., Jr.-----
Glantz, M. H.-----	Alexander, S. M.-----	Atkins, G. T.-----	Hean, J. H.-----	Rodgers, J. W.-----	Browne, O. M., Jr.-----	Hayward, J. T.-----	Shaffer, J. J., 3d.-----
Heiser, H. M.-----	Hughes, C. W.-----	Foster, R. B.-----	Lueker, N., Jr.-----	Stroh, R. J.-----	Beaus, F. D.-----	Forster, J. F.-----	Bradman, F. C.-----
Haven, R. C.-----	Cook, G.-----	Blackburn, F. P., Jr.-----	Swan, B. F.-----	Bardwell, F. E.-----	Reinhard, W. A.-----	Conn, R. J. H.-----	Gagnon, L. T.-----
Corey, H. G.-----	Ross, R. R.-----	Carmick, E. S.-----	Howard, J. H.-----	Briner, R. R.-----	Cass, R. S.-----	Sass, J. J.-----	Smith, J. L., Jr.-----
Midshipman lieutenant (J. G.).-----							
Do-----							
Do-----							
Do-----							

Midshipman chief petty officer.	Trippensee, B. E. S.	Sutherland, R. T., jr.	Adkins, J. A.	Bauer, H. W.	Trower, R. S., 3d.	Gubbins, W. W.	Nelson, W. T.	Dodge, H. B.
Midshipman mustering petty officer.	Lang, J. G.	Butterfield, G. N.	Foster, W. M.	Spofford, R. T.	Kyes, J. E.	Wakefield, E. K.	O'Handley, J. A.	Johnson, H. F.
Do.	Kohlhas, A. P., jr.	Chafee, G. B.	Holley, G. M., jr.	Walter, W. A.	Krick, D. F.	Scull, G.	Williams, F. H.	Hulme, J.
Do.	Miller, A. S.	Esslinger, R. J.	Snead, W. O., jr.	Lord, C. W.	Sands, E. T.	Lewis, J. M.	Randall, S. M.	Lowrance, V. L.
Do.	Rigsbee, E. O., jr.	West, A. R.	Post, W. S., jr.	Lloyd, R.	Patten, R. M.	Grannis, R. L.	Heerbrandt, P. F.	Wilbourne, W. W.
Midshipman guildon petty officer.	Larson, H. N.	Lee, J. E.	Blenker, N. L.	Holmes, E. P.	Fuetsch, B. A.	Masterson, K. S.	Wadsworth, A. S.	Chambers, G. M.
Midshipman first petty officer.	McKnight, J. R., jr.	Evans, P. C.	Andrews, C. H.	Weiss, F. A., jr.	MacKay, H. T.	Johnson, F. L.	Dally, R. S.	Burgett, W. A.
Do.	Dennis, J. R.	Winant, F. L., jr.	Maynard, R. H.	Gentry, K. M.	Engleman, C. L.	Williams, G. D.	Wesanen, W. F.	Wilbur, J. T.
Do.	Mauro, C. T., jr.	White, O. E.	Roby, A. B.	Perkins, R. E.	Moore, W. B.	Thornhill, T. J., jr.	Miller, F. B.	McCready, G. T.
Do.	Thompson, L. C.	Edgerton, E. W.	Harris, D. A.	Azer, J. B.	Farnham, D. W.	Craig, J. R.	Tisdale, W. G., jr.	Reeder, F. M.
Do.	Wagner, F. G., jr.	McCombs, C. E.	Gaulin, V. S.	Vorhees, M. E.	Ailes, J. W., 3d.	Lampe, A. E.	Over, G. R.	Ruff, L. E.
Do.	Tatom, J. F.	Bourgeois, A. J.	Hanson, B. S., jr.	Marshall, T. W., jr.	Englund, H. W.	Epperly, W. F.	Thomas, W. C.	McPeake, R. H.
Do.	Greene, W. M.	Boyle, S.	Neal, A. W.	Hilton, C. G.	Fairchild, M. D.	Nixon, R. M.	Konigsberg, A.	Armstrong, J. H., jr.
Do.	Boyle, L. DeV.	Stevens, J. E.	Blanchard, B. E.	Kelly, E. G.	Stich, F. S.	Campbell, N. A.	Marix, G. E.	Little, E. N.
Midshipman second petty officer.	Hansen, H. O.	Carpenter, G. C.	Mothersill, P. W., jr.	Taylor, R. H.	Dornin, M. E.	Haines, N. S.	Salisbury, J. S.	Burgess, J. G.
Do.	Heap, G. L.	Prien, W. F.	Brumby, E.	Miller, T. T.	Kirvan, W. H.		Estabrook, W. S., jr.	Stewart, W. H.
Do.	Block, E. M.	Allen, B. C., jr.	Laing, F. W.	Palmer, G. G.	Sloat, F. T.	Hilles, F. V. H.	Brook, C. B.	Ebert, W. G.
Do.	Brodie, G. K.	Grigg, J. B.	Hall, C. G.	Grove, A. E.	McMillian, I. E.	Drane, W. M.	Malpas, R. E.	Hawkins, D. D.
Do.	Williams, M. B.	Spring, A. F.	Curley, K. E.	Martell, C. B.	Robbins, J. A.	Lawver, R. C.	Badger, H. P.	Sronbehn, W. W.
Do.	Halle, J. R.	Moreno, J. A.	Fromhold, W. H.	Fry, E. W., jr.	Flynn, J. H.	Ostrom, C. H.	Sutton, R. D.	Legare, H. K.
Do.	Hayes, C. H.	Woodruff, J. A., jr.	Bates, R. H.	Holt, H. W.	Heming, H. M.	Dealey, S. D.	Sisson, J. E.	Calloret, J. L., jr.
Do.	Quiggle, L. C.	Cushing, D. B.	Herns, C. R.	Ellis, W. E.	Craighill, R. R.	Davis, J. W.	Bristol, J. M.	Briner, H. V.
Do.	Whitfield, J. D., jr.	Hanlin, F. W.	Price, T. D.	Russell, F. W.	Clarkson, J. S.	Hill, R. E.	Whitaker, J. M.	Wygant, H. S., jr.
Do.	Marable, H. H.	Dunn, E. J.	Mayo, R. L.	House, H. A.	Hart, C. D.	Kinert, J. O.	Seay, G. C.	Wylie, W. N.
Do.	Canaday, H. R.	Pusel, N. J.	Halstead, M.	Earl, C. E.	Yeaton, S. S.	Stevens, C. B., jr.	Dodson, J. E.	Stevenson, H. C.
Do.	Newton, R. A.	Bauer, R. C.	Howell, J. G.	Owen, A. E.	Webb, T. S.	Jones, L. J.	Massey, I. E.	Eddy, I. C.
Do.	Salmon, R. D.	Lowrey, W. W.	Earle, O. J.	Wogan, T. L.	Drake, N. D. A.	Lidstone, N. A.	Edwards, J. E.	Luongo, F. P., jr.
Do.	Spence, H. W.	Thibault, J. L.	Mathews, L. O., jr.	Ashton, A. H.	Kiefer, D.	Sheeley, W. R.	Rutter, R. L.	Wright, T. K.
Do.	Weller, D. M.	Coates, R. F.	Lincoln, H. A.	Price, E. O.	McClain, W. H.	Nix, J. J.	Hubbard, H. S.	Riva, V. E.
Do.	Burden, H. P.	Charneco, C. M.	Jennings, R. F.	Adams, S.	Sanders, W. H.	Jenkins, W. T.	Coates, L. D., jr.	Robinson, F. L.
Do.	Hinderei, A. F.	Doyle, W. T.	Doyle, J. M.	Daly, J. B.	Woodard, W. T.	Sharp, R. N.	Geary, J. P.	Jennings, Z. D.
Do.	McGregor, L. D., jr.	Wagner, E. O.	Dimmick, J. B.	Young, J. B. H.	Adams, C. R.	Dorner, E. P.	Van Metre, T. J.	Brokenshire, D. B.
Do.	Steiner, W. B.	McCullough, M. L., jr.	Wingard, W. C., jr.	Kosco, G. F.	Brunton, L. C.	Montgomery, E. A.	McPherson, K. S.	Gilliam, C. R.

Midshipmen officers and petty officers, 1929-30—Continued

	First company	Second company	Third company	Fourth company	Fifth company	Sixth company	Seventh company	Eighth company
Midshipman second petty officer.	Reinecke, F. M.	Dallman, D. E.	Hutchins, T. B., 3d.	Davis, J. M.	Grant, J. D. L.	Freeberg, S. A.	Hewitt, G. S.	Smith, P. T., Jr.
Do.	Bisson, J. K.	Andrada, J. V.	Haynsworth, H. C. Jr.	Wilson, F. E.	Agnew, J.	Olney, D. W.	Harmon, W. L.	Vosseller, J. O.
Do.	Chapple, W. G.	Coffee, D. M.	Whitehurst, E. H.	Robinson, O. W.	Carter, F. M.	Coe, J. W.	Ruddy, J. A., Jr.	Lynch, O. D. T.
Do.	Henry, W. T.	Harrell, N.	Germany, R. W., Jr.	Weller, S. P., Jr.	Rohr, C. H. A.	Feiock, H. K.	Gross, R. L.	
Do.	Bowen, J. B., Jr.	Newsome, J. H.	Barrett, A. J., Jr.	Conner, R. R.	Newell, B. B.	McLeod, B. F.	Lynch, R. F.	

Effective Sept. 27, 1929. Seniority among midshipmen officers and petty officers in same grade will be established by separate orders. Numbers in () after names in staff details indicate company assignments.

PRACTICE CRUISE, 1929

There was no regular Naval Academy practice squadron for the summer practice cruise, 1929.

Officers and midshipmen detailed for the practice cruise embarked on June 7, 1929, and disembarked August 29, 1929.

The midshipmen of the first and third classes were assigned to the following ships of battleship division 2, Scouting Fleet: *Arkansas* (flagship), *Florida*, and *Utah*.

The itinerary of the midshipmen's practice cruise was as follows:

Place	Arrival	Departure
Annapolis, Md.....	-----	June 8
Barcelona, Spain.....	June 25	July 3
Naples, Italy.....	July 5	July 11
Gibraltar, Spain.....	July 15	July 17
Weymouth, England.....	July 22	Aug. 1
Hampton Roads, Va.....	Aug. 15	Aug. 19
Southern drill grounds (conduct target practice).....	Aug. 19	Aug. 29
Annapolis, Md.....	Aug. 29	

NOTE.—The midshipmen of the second class (class of 1931) were retained at the Naval Academy to undergo practical instruction in aviation and engineering subjects.

MERIT ROLLS FOR 1928-29

Merit rolls, made out annually for each class, show the proficiency of the midshipmen in each branch of study. The numbers given in the table, showing the relative weight of the different branches, are used as coefficients, the final mark in each branch (on a scale of 4) being multiplied by the number assigned to that branch. The sum of the products, after adding the multiple for discipline, is the final mark of the midshipmen for the year.

In the graduating merit roll the final standing for the course is determined by the sum of the yearly multiples.

Midshipmen who attain 85 per cent of the multiple for a year shall be distinguished by a star affixed to their names on the annual merit rolls. (Regulations, U. S. Naval Academy, 1928, art. 191.)

The diplomas of midshipmen whose final multiples on the graduating merit roll are not less than 85 per cent of the maximum shall read "Passed with distinction"; those whose final multiples are less than 85 per cent but not less than 75 per cent of the maximum shall read "Passed with credit"; and those whose final multiples are less than 75 per cent of the maximum shall read "Passed." (Regulations, U. S. Naval Academy, 1928, art. 192.)

* Received 85 per cent of multiple.

a Completed course; commission withheld pending action on physical disability.

b Resignation accepted upon graduation due to physical disqualification.

c Turned back into next lower class on account of conduct.

d Sent on practice cruise on account of scholastic deficiency; later passed reexamination; graduated and commissioned.

dd Died.

e Diploma withheld; sent on practice cruise as disciplinary measure; later graduated and commissioned.

f Dismissed.

g Found physically disqualified and required to resign.

h Deficient in studies; turned back into next lower class.

i Deficient in studies; required to resign.

j Sent on practice cruise as a disciplinary measure; later dropped.

k Resigned; did not graduate.

MC Assigned to Marine Corps upon graduation.

n Sent on practice cruise on account of scholastic deficiency; upon expiration of cruise reexamined and again found deficient; turned back into next lower class.

o Physically disqualified.

p Turned back into this class on account of conduct.

r Resigned.

s Dropped on account of physical disqualification.

SC Assigned to Supply Corps upon graduation.

t Turned back into class of 1932 on account of conduct.

w Turned back into next lower class on account of illness.

x Deficient for first term; turned back into this class.

† Readmitted with class of 1933.

Originally a member of the class of 1928. Reinstated on June 23, 1928, in accordance with an act of Congress approved June 8, 1928, and ordered placed in this class. Age upon reinstatement: 21 years and 11 months.

Merit roll for the four years' course of the midshipmen of the graduating class (class of 1929), 243 members, of whom 240 graduated

Order of merit	Names	First year	Second year	Third year	Fourth year	General aggregate for four years
	Maxima.....	100	200	300	400	1,000
*1	Webster, J. B.....	92. 03	179. 63	271. 89	359. 43	902. 98
*2	Baird, A. L.....	91. 52	178. 98	271. 12	355. 93	897. 55
*3	Farrin, J. M., jr.....	89. 24	170. 81	260. 77	363. 47	884. 29
*4	Pryor, K.....	90. 35	174. 71	255. 31	359. 78	880. 15
*5	Keatley, J. H.....	89. 98	177. 18	263. 81	344. 16	875. 13
*6	Allen, W. C.....	90. 14	176. 66	259. 72	346. 74	873. 26
*7	Richardson, L. E.....	90. 63	174. 98	263. 10	344. 04	872. 75
*8	Shute, C. C.....	84. 53	167. 86	265. 29	353. 44	871. 12
*9	Trescott, C. E.....	88. 82	172. 98	262. 24	340. 06	864. 10
*10	Wales, G. H.....	86. 67	168. 65	260. 51	343. 59	859. 42
*11	Hiemenz, H. J.....	84. 53	167. 85	255. 09	349. 53	857. 00
*12	Adamson, F. M.....	88. 12	167. 63	257. 77	341. 99	855. 51
*13	Weakley, C. E.....	85. 67	171. 35	257. 12	339. 51	853. 65
*14	Wait, D. E.....	85. 62	171. 77	251. 37	341. 93	850. 69
b15	Bush, D. P.....	87. 25	170. 81	251. 45	336. 80	846. 31
16	Persons, H. S., jr.....	87. 35	165. 28	255. 08	338. 35	846. 06
17	Junghans, E. A.....	81. 44	163. 31	249. 90	350. 66	845. 31
18	Anderson, S. C.....	79. 45	160. 25	256. 08	346. 39	842. 17
19	MacFarlane, H. A.....	84. 24	163. 25	254. 34	338. 96	840. 79
20	Heinlein, R. A.....	90. 18	175. 35	247. 40	326. 95	839. 88
21	Huff, G. L.....	84. 60	167. 41	252. 07	335. 27	839. 35
22	Morse, L. T.....	85. 65	168. 57	249. 94	333. 92	838. 08
23	Kent, T. E., jr.....	85. 58	163. 27	252. 26	335. 04	836. 15
24	Hinman, M. B.....	85. 47	170. 36	253. 02	327. 02	835. 87
25	McCoy, R. B.....	86. 29	163. 18	250. 81	335. 24	835. 52
MC26	Coleman, W. F.....	84. 45	164. 35	249. 76	336. 85	835. 41
27	Miller, C. L.....	82. 83	161. 84	250. 56	339. 78	835. 01
28	Wyatt, M. B.....	83. 48	155. 42	253. 20	342. 73	834. 83
29	Fox, L. O.....	81. 49	161. 12	252. 39	339. 17	834. 17
30	Novak, F.....	84. 77	161. 45	248. 55	334. 86	829. 63
31	Davison, J. W.....	84. 62	165. 11	250. 66	327. 08	827. 47
32	Gates, W. S.....	85. 44	166. 72	250. 05	324. 86	827. 07
33	Moore, J. Raymond.....	82. 06	159. 29	250. 92	333. 94	826. 21
34	Kabler, W. L.....	81. 24	157. 75	247. 37	339. 71	826. 07
35	Wilson, T. P.....	78. 12	157. 36	256. 08	333. 70	825. 26
36	Parish, E. W., jr.....	87. 38	168. 43	245. 31	323. 82	824. 94
37	Denham, W. S.....	80. 89	164. 92	246. 85	331. 55	824. 21
38	Bacher, E. J.....	87. 15	163. 06	243. 75	329. 85	823. 81
39	Laning, C. B.....	87. 07	171. 32	250. 09	314. 58	823. 06
MC40	Lippert, F. G.....	85. 29	165. 59	242. 88	328. 93	822. 69
41	Canty, J. P.....	81. 74	170. 78	251. 06	319. 03	822. 61
42	Foley, P., jr.....	80. 92	159. 60	247. 86	331. 90	820. 28
43	Berzowski, J. ¹	83. 49	165. 60	247. 40	323. 77	820. 26
44	Ricketts, C. V.....	80. 91	158. 58	251. 89	328. 65	820. 03

¹ Name changed to Joseph Berzowski Berkley.

Merit roll for the four years' course of the midshipmen of the graduating class (class of 1929), 243 members, of whom 240 graduated—Continued

Order of merit	Names	First year	Second year	Third year	Fourth year	General aggregate for four years
	Maxima.....	100	200	300	400	1,000
45	Brownlee, R. C., 2d.....	83. 39	159. 27	242. 48	332. 58	817. 72
46	Duborg, F. R.....	86. 43	169. 68	247. 76	312. 53	816. 40
47	Ramsbotham, R. J.....	84. 57	160. 72	246. 64	324. 09	816. 02
48	Lake, R. C.....	79. 84	157. 12	241. 58	334. 70	813. 24
49	Deiter, G. H.....	78. 10	152. 99	248. 13	331. 15	810. 37
b50	Moore, C. J.....	83. 81	160. 62	240. 28	324. 83	809. 54
MC51	Murray, H. C.....	80. 24	158. 14	247. 45	322. 17	808. 00
52	Dye, W. L.....	82. 85	157. 19	238. 83	327. 87	806. 74
53	McClure, W. H.....	83. 13	163. 22	248. 79	311. 46	806. 60
b54	Humphrey, P. L.....	87. 50	164. 30	235. 68	317. 83	805. 31
55	Twohy, H. B.....	83. 11	164. 80	232. 96	322. 65	803. 52
56	Ashford, G. W.....	80. 60	159. 38	241. 01	322. 48	803. 47
57	Perkins, A. C.....	79. 23	155. 36	241. 93	326. 54	803. 06
58	Baldauf, L. C.....	85. 11	159. 54	251. 71	305. 89	802. 25
59	Mains, M. C.....	85. 45	166. 18	238. 31	311. 76	801. 70
60	Garner, H. R.....	79. 26	157. 17	241. 18	323. 47	801. 08
b61	Canning, W. M.....	83. 32	160. 18	235. 45	321. 92	800. 87
62	Karrer, H. E.....	82. 71	157. 51	234. 35	325. 70	800. 27
63	Lynch, R. C., jr.....	80. 82	156. 22	239. 17	323. 89	800. 10
64	Peterson, C. A.....	82. 90	156. 21	244. 37	315. 65	799. 13
65	Fitzgerald, C. T.....	81. 37	153. 00	240. 26	323. 77	798. 40
66	Folger, E. C., jr.....	78. 57	158. 89	229. 07	329. 11	795. 64
67	Waterhouse, J. W.....	81. 42	157. 41	240. 47	316. 09	795. 39
68	Kennedy, M. G.....	82. 83	156. 97	236. 14	318. 03	793. 97
SC69	Bush, B. H.....	85. 96	154. 98	238. 32	314. 09	793. 35
70	Hutchins, E. F.....	80. 44	155. 91	239. 08	316. 82	792. 25
71	Ray, H. L.....	79. 53	149. 98	238. 33	324. 06	791. 90
72	Carver, L. P.....	81. 21	156. 26	235. 12	317. 13	789. 72
73	Ferrier, D. T.....	80. 80	156. 35	238. 53	313. 97	789. 65
74	Kirk, O. G.....	82. 06	151. 79	239. 51	315. 77	789. 13
75	Jackson, R.....	80. 50	156. 71	238. 76	313. 11	789. 08
76	McGinnis, R. D.....	79. 50	159. 57	228. 36	321. 42	788. 85
b77	Hastings, W. T., jr.....	79. 29	155. 79	235. 98	317. 56	788. 62
78	Garland, G. P.....	81. 68	155. 18	233. 90	317. 72	788. 48
79	Schreiber, E. T.....	80. 90	154. 31	236. 33	314. 60	786. 14
80	Johnson, R. L.....	81. 98	158. 01	236. 44	307. 26	783. 69
81	Strahorn, A. W.....	80. 63	151. 51	233. 05	317. 50	782. 69
82	Hill, A. S.....	79. 22	155. 69	231. 51	315. 77	782. 19
83	O'Donnell, E. J.....	80. 06	151. 67	237. 19	312. 66	781. 58
84	Collett, J. A.....	81. 40	157. 61	229. 91	310. 73	779. 65
85	Davidson, J. F.....	80. 28	152. 97	232. 38	308. 79	779. 35
86	Van Voorhis, B. A.....	80. 78	150. 42	225. 47	322. 56	779. 23
MC87	Schwable, F. H.....	80. 78	151. 84	234. 07	312. 40	779. 09
88	Rodimon, W. S.....	85. 28	154. 51	231. 62	307. 65	779. 06
89	Triebel, C. O.....	82. 37	153. 67	229. 10	312. 60	777. 74

Merit roll for the four years' course of the midshipmen of the graduating class (class of 1929), 243 members, of whom 240 graduated—Continued

Order of merit	Names	First year	Second year	Third year	Fourth year	General aggregate for four years
	Maxima.....	100	200	300	400	1,000
90	Hannon, E. R.....	79. 29	146. 43	227. 96	323. 14	776. 82
91	White, W. W.....	79. 33	147. 49	234. 23	315. 30	776. 35
92	Hogle, R. D.....	80. 65	156. 47	229. 62	309. 33	776. 07
93	Walker, P. A.....	81. 59	152. 21	220. 11	322. 00	775. 91
94	Watson, W. H.....	80. 52	153. 76	233. 38	308. 11	775. 77
95	Akin, H. D.....	74. 52	151. 32	229. 09	320. 71	775. 64
96	Wilson, T. R.....	76. 93	151. 39	221. 79	324. 03	774. 14
97	McIntyre, L. E.....	80. 15	145. 71	232. 55	314. 83	773. 24
98	Stephens, F. B.....	81. 88	153. 94	230. 44	305. 99	772. 25
99	Huelskamp, W. J.....	76. 25	150. 37	228. 94	315. 35	770. 91
100	Martin, E. P.....	76. 56	149. 32	237. 06	307. 83	770. 77
101	Marcy, C. C.....	75. 54	147. 27	232. 70	314. 73	770. 24
102	Patrick, G. S.....	75. 91	150. 83	230. 21	313. 19	770. 14
103	Coe, B.....	80. 24	155. 35	221. 95	312. 41	769. 95
104	Benson, R. S.....	78. 92	150. 54	230. 67	308. 38	768. 51
105	Duval, J. B., jr.....	77. 55	151. 85	231. 40	307. 70	768. 50
106	Bernet, H. C.....	78. 30	151. 45	232. 14	306. 33	768. 22
b107	Brown, W. S.....	77. 56	155. 15	230. 18	305. 11	768. 00
108	Yoho, J. R.....	80. 35	154. 26	224. 00	308. 96	767. 57
109	Butler, E. F.....	78. 48	151. 34	228. 05	308. 30	766. 17
MC110	Dyer, E. C.....	76. 21	148. 41	232. 15	308. 98	765. 75
111	Stone, L. T.....	77. 80	150. 30	231. 23	306. 21	765. 54
112	Kuhn, F. W.....	80. 58	154. 03	231. 48	299. 37	765. 46
b113	Garrett, K. H.....	76. 29	147. 32	227. 36	314. 21	765. 18
114	Beardsley, G. F.....	75. 64	142. 08	236. 05	311. 00	764. 77
115	Ballinger, R. R.....	78. 78	151. 81	229. 18	304. 97	764. 74
116	Easton, W. T.....	79. 13	154. 50	233. 58	296. 72	763. 93
MC117	Brown, M. G.....	80. 39	150. 18	224. 57	308. 14	763. 28
118	Briant, G. C.....	77. 90	149. 58	226. 93	308. 71	763. 12
119	Crichton, C. H.....	75. 65	150. 71	229. 62	305. 99	761. 97
MC120	Curry, M. L.....	79. 20	153. 36	225. 92	303. 22	761. 70
121	Frankel, S. B.....	82. 78	155. 45	223. 48	299. 90	761. 61
122	Jones, L. H.....	80. 91	147. 94	224. 90	307. 85	761. 60
123	Andrews, J., jr.....	80. 07	151. 92	224. 86	304. 60	761. 45
124	Mills, J. H., jr.....	80. 65	149. 30	227. 03	303. 75	760. 73
125	Tolley, K.....	80. 38	154. 51	232. 92	291. 76	759. 57
MC126	Cone, G.....	76. 17	143. 98	227. 26	311. 85	759. 26
127	Perreault, S. B.....	79. 76	153. 13	227. 73	298. 58	759. 20
128	Keeler, F. S.....	78. 04	147. 42	229. 49	304. 23	759. 18
129	McCauley, C. C.....	73. 09	147. 66	231. 47	306. 66	758. 88
130	Buckalew, W. D.....	78. 55	147. 34	230. 72	301. 80	758. 41
131	Hall, F. E.....	78. 82	148. 72	229. 89	300. 45	757. 88
132	Clark, R. N. S.....	80. 38	153. 14	223. 55	300. 18	757. 25
133	Darnell, W. I.....	78. 15	145. 94	221. 58	311. 43	757. 10
134	Galbraith, W. J.....	80. 05	153. 79	222. 35	300. 03	756. 22

Merit roll for the four years' course of the midshipmen of the graduating class (class of 1929), 243 members, of whom 240 graduated—Continued

Order of merit	Names	First year	Second year	Third year	Fourth year	General aggregate for four years
	Maxima.....	100	200	300	400	1,000
MC135	Johnson, C. W.....	80. 12	149. 64	230. 37	295. 88	756. 01
136	Epps, W. B.....	73. 57	147. 45	226. 80	307. 82	755. 64
137	Strong, S. C.....	78. 88	148. 77	226. 01	301. 94	755. 60
138	Davis, R. P.....	79. 09	153. 41	218. 66	304. 06	755. 22
b139	Dodson, Edwin N.....	76. 71	147. 60	224. 24	306. 49	755. 04
140	Birmingham, J. M.....	77. 36	146. 32	222. 33	308. 01	754. 02
141	Coffin, H. N.....	78. 18	149. 66	224. 20	299. 16	751. 20
142	Hardin, J. T.....	79. 97	153. 00	224. 82	293. 33	751. 12
b143	Lincoln, S. A., jr.....	78. 08	149. 18	227. 78	295. 39	750. 43
144	Nelson, P. J.....	76. 97	146. 60	222. 59	303. 54	749. 70
145	Welsh, D. J.....	78. 45	148. 14	219. 70	303. 21	749. 50
146	Pennewill, W. E.....	72. 23	142. 22	223. 46	311. 18	749. 09
147	Greenamyre, L. K.....	79. 90	147. 91	221. 80	299. 05	748. 66
148	Eller, D. T.....	77. 66	147. 17	224. 87	298. 40	748. 10
149	Johansen, G. N.....	74. 82	147. 55	222. 71	302. 92	748. 00
b150	Nash, H.....	74. 79	146. 57	220. 35	305. 87	747. 58
151	Carmichael, G. K.....	76. 42	153. 11	219. 68	297. 52	746. 73
MC152	Warfield, C. D.....	77. 77	144. 57	228. 58	295. 50	746. 42
153	Mitchell, F. P., jr.....	77. 74	147. 70	219. 37	301. 29	746. 10
154	McGregor, R. R.....	74. 14	144. 48	222. 53	304. 50	745. 65
155	Arthur, W. S.....	72. 71	140. 29	227. 06	304. 48	744. 54
156	Wilkinson, R. H.....	79. 94	146. 97	217. 90	299. 24	744. 05
157	Carlson, D.....	73. 01	143. 36	221. 36	305. 33	743. 06
158	Frank, N. J. F., jr.....	75. 76	145. 55	217. 25	304. 37	742. 93
MC159	Sullivan, R. B., jr.....	72. 45	141. 33	226. 88	302. 20	742. 86
160	Burke, E. J.....	75. 16	144. 67	215. 41	307. 59	742. 83
161	Jordan, F. D.....	74. 71	147. 21	223. 35	297. 34	742. 61
162	Dennett, E. V.....	81. 83	148. 37	217. 67	294. 57	742. 44
163	Duvall, G. F.....	75. 26	153. 31	224. 28	289. 38	742. 23
164	Rembert, J. P., jr.....	74. 92	144. 32	228. 03	294. 85	742. 12
165	Gray, A. M.....	77. 55	146. 75	218. 17	297. 40	739. 87
166	Miller, A. J.....	76. 07	140. 94	221. 88	300. 61	739. 50
167	Cashman, W. A.....	76. 90	144. 69	219. 51	298. 37	739. 47
168	Loomis, A. E.....	73. 59	144. 06	220. 90	300. 81	739. 36
169	Denbo, R. W.....	73. 99	141. 58	222. 60	301. 05	739. 22
170	Conley, E. G.....	74. 43	142. 17	221. 79	300. 42	738. 81
171	Raby, J.....	75. 45	141. 70	216. 63	304. 85	738. 63
172	Prause, J. H.....	74. 84	144. 55	215. 53	302. 94	737. 86
173	Hood, A. H.....	71. 73	139. 53	224. 44	301. 56	737. 26
174	Woerner, P. L.....	80. 84	149. 56	213. 30	293. 55	737. 25
175	Rooney, R. S.....	79. 97	148. 73	220. 38	287. 84	736. 92
176	Roth, E. A.....	75. 49	144. 55	222. 48	294. 21	736. 73
MC177	Griffith, S. B., 2d.....	76. 19	147. 06	214. 07	299. 31	736. 63
178	Weiss, D. F.....	75. 11	144. 34	220. 31	296. 80	736. 56
179	Stephan, E. C.....	78. 06	144. 22	218. 38	294. 81	735. 47

Merit roll for the four years' course of the midshipmen of the graduating class (class of 1929), 243 members, of whom 240 graduated—Continued

Order of merit	Names	First year	Second year	Third year	Fourth year	General aggregate for four years
	Maxima.....	100	200	300	400	1,000
180	Britt, J. W.....	79. 06	146. 70	212. 28	297. 42	735. 46
MC181	Crist, R. F., jr.....	72. 72	138. 31	227. 24	297. 15	735. 42
182	McRoberts, H. J.....	75. 57	145. 14	217. 16	296. 70	734. 57
183	Waltermire, W. G.....	71. 95	146. 68	221. 28	293. 89	733. 80
MC184	Roberts, C. C.....	72. 22	147. 83	218. 33	295. 19	733. 57
185	Lucas, A. D.....	74. 40	142. 45	223. 07	292. 61	732. 53
186	Fenton, C. R.....	78. 46	142. 92	216. 60	293. 31	731. 29
187	D'Avi, J. A.....	78. 72	144. 72	217. 97	288. 05	729. 46
188	Morgan, C. C.....	71. 77	140. 88	219. 16	297. 34	729. 15
189	Walker, C. A., jr.....	78. 40	148. 03	215. 28	287. 39	729. 10
190	Nielsen, H.....	75. 95	144. 59	212. 76	294. 97	728. 27
b191	Dowling, D. B.....	75. 44	145. 64	217. 79	288. 66	727. 53
192	Martin, M. M.....	73. 34	141. 66	213. 24	297. 19	725. 43
193	Connell, R. J.....	74. 63	144. 11	207. 27	299. 05	725. 06
194	Butts, W. S.....	73. 17	141. 13	219. 72	290. 86	724. 88
195	Roughton, E.....	70. 49	139. 66	221. 11	293. 16	724. 42
196	Johnson, Carl A.....	75. 24	139. 61	216. 02	293. 52	724. 39
197	Brunton, C. E.....	73. 90	141. 13	212. 53	296. 65	724. 21
SC198	Collins, E. C.....	76. 20	142. 17	216. 46	289. 26	724. 09
199	Kohr, G. L.....	70. 84	138. 84	217. 87	295. 18	722. 73
200	Johnson, F. J.....	73. 69	142. 37	213. 73	291. 31	721. 10
b200½	Nelson, H. A.....	78. 77	144. 61	207. 43	290. 29	721. 10
201	Flatley, J. H., jr.....	73. 64	139. 03	209. 59	298. 07	720. 33
202	Foley, J. L.....	76. 49	144. 37	217. 23	281. 65	719. 74
203	Sharp, G. A.....	70. 08	140. 70	214. 29	293. 25	718. 32
MC204	Ledbetter, O. C.....	75. 27	141. 79	207. 42	293. 61	718. 09
205	Stovall, W. S., jr.....	72. 35	136. 85	215. 30	293. 24	717. 74
206	McAlpin, J. V., jr.....	74. 73	140. 90	210. 27	291. 81	717. 71
207	Simpler, L. C.....	72. 02	140. 13	217. 61	287. 92	717. 68
208	Davison, T. W.....	76. 11	142. 88	210. 00	288. 08	717. 07
209	Hutchison, C. K.....	72. 91	135. 64	218. 67	289. 81	717. 03
MC210	Lang, H. C.....	74. 46	144. 06	209. 60	288. 91	717. 03
211	Stewart, C. W.....	72. 69	143. 46	211. 65	288. 53	716. 33
b212	Keyes, R. S., jr.....	76. 20	146. 31	209. 29	284. 14	715. 94
MC213	Bryson, W. F.....	76. 33	145. 61	210. 34	283. 59	715. 87
214	St. Angelo, A. R.....	74. 11	140. 92	209. 53	291. 28	715. 84
215	Giese, C. E.....	74. 97	144. 38	213. 39	282. 86	715. 60
216	Armbrust, C. R.....	73. 83	137. 04	211. 64	292. 97	715. 48
SC217	Cone, H. S.....	72. 92	140. 54	209. 53	292. 35	715. 34
MC218	Lake, J. B., jr.....	73. 11	142. 50	206. 84	292. 86	715. 31
SC219	Meeker, C. A.....	72. 63	145. 15	207. 54	289. 99	715. 31
220	Miller, C. F.....	73. 25	140. 41	209. 16	291. 91	714. 73
221	Brandley, F. A.....	73. 00	141. 36	209. 70	287. 92	711. 98
222	Visser, R. G.....	75. 58	142. 42	209. 75	284. 13	711. 88
223	Hezlep, J. M.....	73. 80	140. 80	211. 58	285. 34	711. 52

Merit roll for the four years' course of the midshipmen of the graduating class (class of 1929), 243 members, of whom 240 graduated—Continued

Order of merit	Names	First year	Second year	Third year	Fourth year	General aggregate for four years
	Maxima	100	200	300	400	1,000
224	Hart, R. A	73. 03	140. 52	209. 44	288. 51	711. 50
225	Osborn, P. R	76. 26	144. 69	210. 56	278. 82	710. 33
226	Christie, C. G	70. 26	137. 33	211. 59	291. 07	710. 25
227	McElroy, J. H	71. 68	139. 50	214. 04	284. 46	709. 68
228	Phillips, C. F	73. 84	136. 98	205. 13	292. 58	708. 53
229	Richter, W. J	72. 93	144. 64	208. 85	278. 97	705. 39
230	Wotton, A. H	74. 49	133. 82	208. 61	288. 33	705. 25
MC231	Roberts, D. C	76. 24	142. 52	202. 98	283. 38	705. 12
b232	Walker, H. S., jr	72. 47	145. 69	209. 45	277. 43	705. 04
233	Mattie, D. L	72. 77	141. 99	213. 29	274. 56	702. 61
234	Dickinson, M. C	73. 14	141. 76	208. 13	279. 32	702. 35
j235	Ford, W. E	75. 39	145. 84	210. 27	270. 33	701. 83
236	Bond, A. L	72. 66	138. 86	206. 54	282. 10	700. 16
237	Duffy, L. V	72. 12	137. 16	205. 45	284. 84	699. 57
238	Stillman, D. F	71. 55	136. 45	201. 10	284. 22	693. 32
239	Oliver, W	72. 38	133. 43	210. 11	276. 93	692. 85
240	Marchant, W. A	72. 45	135. 44	206. 28	276. 01	690. 18
241	White, A. F	70. 07	132. 86	209. 31	276. 38	688. 62
wr	Brewster, W. A	79. 82	150. 55	217. 94	-----	-----

Merit roll of the midshipmen of the graduating class (class of 1929).

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission		Sea service in practice ships	
				Years	Months	Months	Days
*14	Adamson, Frank Marshall.....	South Dakota.....	June 25, 1925	18	4	8	9
65	Akin, Harvey Davidson.....	North Carolina.....	June 23, 1925	17	10	8	9
*8	Allen, William Carlton.....	Oklahoma.....	June 16, 1925	18	7	8	9
*9	Anderson, Samuel Clay.....	Iowa.....	June 22, 1925	18	4	6	27
130	Andrews, John, jr.....	North Dakota.....	Sept. 1, 1925	20	0	8	9
195	Armbrust, Carl Raymond.....	Arkansas.....	July 8, 1924	18	6	10	23
132	Arthur, William Samuel.....	North Dakota.....	June 15, 1925	18	4	6	20
60	Ashford, George Woodson.....	Georgia.....	July 1, 1925	17	4	8	9
37	Bacher, Edward Johnson.....	Massachusetts.....	June 25, 1925	16	10	8	9
*4	Baird, Abraham Lincoln.....	Ohio.....	June 16, 1925	17	11	8	9
124	Baldauf, Laurence Charles.....	Pennsylvania.....	do.....	19	8	8	9
128	Ballinger, Richard Robert.....	California.....	June 15, 1925	18	9	8	9
99	Beardsley, George Francis.....	Illinois.....	June 25, 1925	17	8	8	9
106	Benson, Roy Stanley.....	New Hampshire.....	June 16, 1925	18	6	8	9
110	Bermingham, John Michael.....	New York.....	do.....	19	11	8	9
120	Bernet, Howard Cavender.....	Missouri.....	do.....	17	2	7	28
54	Berzowski, Joseph ¹	Wisconsin.....	do.....	18	3	8	9
231	Bond, Awtry Lawrence.....	Georgia.....	June 27, 1925	19	7	8	9
218	Brandley, Frank Albin.....	Oklahoma.....	July 11, 1925	19	11	5	29
<i>wr</i>	Brewster, Willits Alden.....	Wyoming.....	June 27, 1925	18	9	8	9
105	Briant, Granville Charles.....	Kentucky.....	June 17, 1925	18	10	8	9
166	Britt, Jacob William.....	Alaska.....	June 19, 1925	20	2	6	25
MC108	Brown, Melvin George.....	Ohio.....	June 15, 1925	19	5	8	9
b127	Brown, Winston Seaborn.....	Georgia.....	July 3, 1925	16	8	7	1
33	Brownlee, Robert Carson, 2d.....	New York.....	July 21, 1925	18	2	8	9
175	Brunton, Charles Edward.....	California.....	July 15, 1925	19	3	8	9
MC228	Bryson, William Franklyn.....	Illinois.....	June 17, 1925	19	10	8	9
144	Buckalew, William Dorsey.....	Alabama.....	June 15, 1925	18	4	8	1
116	Burke, Edward Joseph.....	Pennsylvania.....	June 18, 1925	17	8	4	20
SC85	Bush, Burl Heber.....	do.....	Aug. 31, 1925	18	8	8	9
b24	Bush, Donald Porter.....	Wyoming.....	June 17, 1925	18	6	5	19
107	Butler, Edward Francis.....	New York.....	June 25, 1925	16	3	8	9
206	Butts, Whitmore Spencer.....	West Virginia.....	June 17, 1925	18	5	4	9
k63	Canning, William Myles.....	North Dakota.....	do.....	18	2	8	9
66	Canty, Joseph Patrick.....	Illinois.....	Aug. 12, 1925	18	11	8	9
126	Carlson, Daniel.....	Washington.....	June 15, 1925	19	8	8	9
165	Carmichael, George Kennedy.....	North Carolina.....	June 16, 1925	18	8	8	9
72	Carver, Lamar Peyton.....	Minnesota.....	do.....	17	3	8	9
163	Cashman, William Arthur.....	New York.....	do.....	18	2	7	28
205	Christie, Carl Guilford.....	Missouri.....	do.....	18	8	8	9
152	Clark, Robert Nicholson Scott.....	At large (Pres.).....	June 15, 1925	18	5	8	9
92	Coe, Benjamin.....	Illinois.....	June 17, 1925	18	7	8	5
158	Coffin, Harry Nelson.....	Maine.....	July 2, 1925	19	3	8	9
MC23	Coleman, William Francis.....	Pennsylvania.....	June 16, 1925	17	4	8	9
100	Collett, John Austin.....	Nebraska.....	do.....	17	3	8	9
SC210	Collins, Ernest Clifford.....	Maine.....	June 15, 1925	19	4	8	9
MC94	Cone, Gordon.....	Ohio.....	June 17, 1925	20	1	8	9
SC199	Cone, Henry Shipman.....	Arkansas.....	June 18, 1925	20	1	8	9
151	Conley, Edwin Gus.....	Idaho.....	June 16, 1925	19	6	8	9
159	Connell, Robert Joseph.....	New Jersey.....	do.....	18	7	8	9
122	Crichton, Charles Helmick.....	Missouri.....	June 27, 1925	18	9	7	28
MC171	Crist, Raymond Fowler, jr.....	New York.....	June 18, 1925	17	1	8	9
MC138	Curry, Manly Lamar.....	Georgia.....	June 16, 1925	20	1	8	9

¹ Name changed to Joseph Berzowski Berkley.

243 members, for the last year of their academic course

Seaman- ship and flight tactics	Ordnance and gunnery	Naviga- tion	Engineer- ing and aero- nautics	Electrical engineer- ing and physics	English	Lan- guages	Hygiene	Aptitude for service	Aggre- gate, fourth year
Maximum									
64	64	40	56	64	20	16	8	68	400
53.44	55.60	33.50	46.20	54.16	16.15	13.00	7.38	62.56	341.99
51.44	52.64	32.15	42.00	52.00	16.00	11.40	6.98	56.10	320.71
56.96	56.40	33.75	46.27	54.96	17.65	12.84	6.88	61.03	346.74
56.00	56.24	35.15	46.41	55.44	15.70	13.20	6.88	61.37	346.39
47.92	48.83	28.95	38.43	46.00	15.55	10.96	6.54	61.37	304.60
48.40	47.84	25.80	37.52	42.80	14.70	12.04	6.58	57.29	292.97
44.64	52.48	31.20	38.99	47.60	13.35	10.68	6.38	59.16	304.48
53.12	48.72	29.95	42.70	52.40	15.10	12.48	6.98	61.03	322.48
53.52	56.00	34.25	41.72	52.88	15.00	14.00	7.06	55.42	329.85
57.52	56.40	34.85	50.05	56.96	17.45	13.88	7.28	61.54	355.93
45.28	51.60	34.85	41.65	49.60	14.45	11.84	5.62	51.00	305.89
48.64	47.84	29.10	40.18	44.96	14.75	11.64	5.98	61.88	304.97
46.56	52.24	36.15	40.25	47.44	13.60	10.24	6.72	57.89	311.00
48.40	52.32	34.45	37.17	43.12	14.20	12.24	6.64	59.84	308.38
50.48	49.20	29.80	40.11	44.88	15.25	13.12	6.52	58.65	308.01
49.44	51.52	29.65	38.08	46.08	16.05	12.04	6.52	56.95	306.33
50.56	53.76	32.20	42.91	51.20	16.35	12.24	6.92	57.63	323.77
44.24	44.80	26.20	37.52	45.68	13.10	10.92	6.94	52.70	282.10
45.68	43.92	28.40	37.03	43.68	13.45	10.52	6.08	59.16	287.92
47.04	51.44	29.80	40.11	44.64	15.25	11.24	6.80	62.39	308.71
46.56	49.52	28.90	38.71	44.40	14.25	11.32	5.96	57.80	297.42
48.56	50.00	28.55	40.11	48.56	16.20	11.72	6.98	57.46	308.14
49.44	52.00	30.00	37.31	46.88	14.70	11.80	6.32	55.76	305.11
53.44	53.84	32.95	44.45	52.56	15.45	12.56	7.32	60.01	332.58
45.84	50.00	27.90	38.15	47.20	15.10	10.68	6.70	55.08	296.65
46.96	45.52	27.55	37.10	43.44	13.85	12.16	5.84	51.17	283.59
47.52	50.56	28.50	39.90	46.40	13.75	10.48	6.38	58.31	301.80
47.68	50.64	28.60	39.97	49.44	15.55	11.32	6.42	57.97	307.59
48.24	50.24	33.75	39.69	51.44	14.25	11.76	6.24	58.48	314.09
53.92	54.16	32.15	44.31	55.52	16.70	13.64	6.90	59.50	336.80
48.08	50.16	31.85	40.32	49.68	14.45	11.84	7.18	54.74	308.30
45.60	47.44	30.00	38.99	45.68	15.25	10.56	6.34	51.00	290.86
51.68	53.36	30.75	42.28	52.96	16.00	14.08	6.58	54.23	321.92
50.88	48.72	32.40	41.51	49.92	15.65	12.88	6.38	60.69	319.03
46.64	50.16	29.40	40.25	47.36	14.50	10.60	6.92	59.50	305.33
46.96	50.48	29.00	39.13	45.04	14.80	11.44	6.44	54.23	297.52
50.88	52.40	33.35	39.90	48.56	15.15	13.28	6.66	56.95	317.13
46.48	49.28	28.70	39.06	45.12	14.45	11.96	6.54	56.78	298.37
45.04	46.40	27.35	37.66	45.52	14.95	10.68	6.52	56.95	291.07
47.76	48.16	30.65	37.94	43.84	13.80	12.68	6.70	58.65	300.18
48.96	53.12	28.95	39.06	48.88	15.40	11.84	7.38	58.82	312.41
47.36	46.48	30.80	38.71	45.60	14.10	13.04	6.46	56.61	299.16
54.08	56.08	33.25	44.03	50.00	16.15	14.32	6.72	62.22	336.85
50.56	51.04	29.15	39.34	48.32	16.95	12.92	6.18	56.27	310.73
46.24	45.44	28.80	38.01	44.16	13.95	10.72	6.18	55.76	289.26
48.96	49.28	30.95	39.97	48.08	15.25	10.92	6.22	62.22	311.85
47.92	46.72	27.30	37.17	45.60	15.45	11.08	6.88	54.23	292.35
48.80	48.80	27.85	38.64	48.24	15.15	10.44	6.74	55.76	300.42
48.00	47.92	26.35	39.41	44.96	16.15	11.12	7.00	58.14	299.05
50.16	49.04	27.80	41.79	45.28	15.85	11.28	6.48	58.31	305.99
47.76	50.64	28.95	38.08	44.80	14.25	10.48	5.92	56.27	297.15
49.36	46.24	26.40	38.01	47.12	15.10	11.68	5.90	63.41	303.22

Merit roll of the midshipmen of the graduating class (class of 1929)

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission		Sea service in practice ships	
				Years	Months	Months	Days
97	Darnell, William Irvin.....	Oklahoma.....	June 15, 1925	18	7	8	9
217	d'Avi, Joseph Arthur.....	New York.....	June 29, 1925	17	11	8	9
86½	Davidson, John Frederick.....	Pennsylvania.....	June 17, 1925	17	1	7	0
135	Davis, Royce Purinton.....	Maine.....	June 30, 1925	18	8	8	9
42	Davison, John Walter.....	Massachusetts.....	June 16, 1925	17	3	8	9
216	Davison, Thurlow Weed.....	New York.....	do.....	19	5	8	9
36	Deiter, George Hedwig.....	Wisconsin.....	June 20, 1925	18	5	8	9
147	Denbo, Robert Wayne.....	Indiana.....	June 16, 1925	18	10	8	9
35	Denham, Walter Sam.....	Tennessee.....	June 19, 1925	18	11	8	9
184	Dennett, Erle Van Emburgh.....	New Jersey.....	June 22, 1925	17	0	8	9
233	Dickinson, Milton Carey.....	Alabama.....	June 16, 1925	19	8	8	9
6119	Dodson, Edwin Neil.....	do.....	June 17, 1925	19	10	8	9
6212	Dowling, Dean Berrow.....	do.....	June 18, 1925	19	6	7	7
91	Duborg, Francis Rahr.....	Nevada.....	June 23, 1925	17	11	5	1
223	Duffy, Leonard Vincent.....	Illinois.....	Sept. 14, 1925	19	0	8	9
114	Duval, Joseph Berwick, jr.....	Louisiana.....	June 24, 1925	17	0	8	9
209	Duvall, Gordon Franklin.....	California.....	July 8, 1925	19	0	8	9
41	Dye, Williston Lamar.....	At large (Pres.).....	June 15, 1925	19	2	8	9
MC102	Dyer, Edward Colston.....	Maryland.....	June 16, 1925	18	5	7	28
173	Easton, William Thomas.....	California.....	Aug. 26, 1925	20	2	5	29
162	Eller, Donald Temple.....	Virginia.....	June 16, 1925	18	11	8	9
113	Epps, William Bunyon.....	Georgia.....	June 22, 1925	17	6	8	9
*1	Farrin, James Moore, jr.....	Louisiana.....	June 17, 1925	16	11	8	9
191	Fenton, Charles Rudolph.....	Maryland.....	June 29, 1925	18	2	8	9
86	Ferrier, David Tweed.....	Missouri.....	June 16, 1925	19	0	7	7
54	Fitzgerald, Charles Tuckerman.....	Arkansas.....	June 17, 1925	19	2	8	9
164	Flatley, James Henry, jr.....	Wisconsin.....	June 22, 1925	19	0	8	9
232	Foley, James Louis.....	California.....	June 24, 1925	19	3	8	9
34	Foley, Paul, jr.....	South Carolina.....	July 15, 1925	16	10	8	9
38	Folger, Edward Clinton, jr.....	Massachusetts.....	June 18, 1925	18	1	8	9
f241	Ford, William Everett.....	Texas.....	June 16, 1925	18	10	10	1
20	Fox, Leonard Oron.....	Oregon.....	July 10, 1925	19	11	8	9
133	Frank, Nickolas John Frederick, jr.....	Michigan.....	June 22, 1925	16	8	8	9
154	Frankel, Samuel Benjamin.....	New York.....	June 17, 1925	19	11	8	9
153	Galbraith, William Jackson.....	Tennessee.....	Aug. 31, 1925	19	0	8	9
69	Garland, Guy Puett.....	Oklahoma.....	June 15, 1925	18	5	8	9
56	Garner, Howard Robert.....	Kentucky.....	June 16, 1925	20	2	8	9
684	Garrett, Kenneth Howard.....	Utah.....	July 15, 1925	19	0	8	9
47	Gates, William Shinn.....	Pennsylvania.....	June 22, 1925	18	4	8	9
230	Giese, Carl Emil.....	Wisconsin.....	July 13, 1925	19	9	4	10
167	Gray, Allan McLeod.....	Missouri.....	June 16, 1925	20	2	8	9
159	Greenamyer, Lloyd Keyes.....	Michigan.....	June 29, 1925	18	8	8	9
MC156	Griffith, Samuel Blair, 2d.....	Pennsylvania.....	June 18, 1925	19	0	8	9
150	Hall, Finley Elliott.....	Mississippi.....	June 16, 1925	19	5	8	9
57	Hannon, Edward Robert.....	Illinois.....	June 15, 1925	19	2	8	9
190	Hardin, James Thomas.....	Texas.....	June 16, 1925	20	0	4	20
214	Hart, Russell Armour.....	Pennsylvania.....	June 22, 1925	18	5	8	9
670	Hastings, William Thomas, jr.....	New York.....	July 6, 1925	18	7	8	9
44	Heinlein, Robert Anson.....	Missouri.....	June 16, 1925	17	11	8	9
222	Hezlep, James McBurney.....	Ohio.....	do.....	19	5	8	9
*7	Hiemenz, Herbert John.....	Minnesota.....	July 3, 1925	18	2	8	9
75	Hill, Arthur Sinclair.....	Pennsylvania.....	June 17, 1925	17	11	8	9
43	Hinman, Maurice Blackwell.....	Montana.....	Sept. 8, 1925	17	8	8	9
101	Hogle, Reynold Delos.....	Texas.....	June 16, 1925	19	1	7	7

243 members, for the last year of their academic course—Continued

Seaman- ship and flight tactics	Ordnance and gunnery	Naviga- tion	Engineer- ing and aero- nautics	Electrical engineer- ing and physics	English	Lang- uages	Hygiene	Aptitude for service	Aggre- gate, fourth year
Maximum									
64	64	40	56	64	20	16	8	68	400
48.80	50.00	34.40	38.85	47.28	15.05	12.36	7.74	56.95	311.43
44.00	48.56	27.25	38.36	44.72	13.50	12.64	5.98	53.04	288.05
50.88	51.52	29.25	41.65	48.88	16.15	12.80	7.00	50.66	313.72
47.84	50.16	29.95	39.27	44.16	14.95	13.92	5.84	57.97	304.06
50.72	50.80	34.60	40.60	56.32	14.80	12.96	6.44	59.84	327.08
45.52	46.08	25.85	36.75	43.28	14.40	12.04	6.36	57.80	288.08
52.00	58.56	33.65	41.23	48.64	15.95	10.84	6.36	63.92	331.15
48.24	49.52	28.10	40.04	47.20	15.90	11.04	6.10	54.91	301.05
56.00	53.60	34.50	44.31	55.20	16.15	13.56	7.06	51.17	331.55
45.36	47.76	27.70	39.13	46.40	14.15	12.20	5.60	56.27	294.57
45.44	43.04	28.40	38.15	44.24	14.40	10.60	6.26	48.79	279.32
51.60	49.84	31.35	38.29	46.00	14.90	11.08	6.14	57.29	306.49
45.20	45.44	27.65	37.45	44.48	14.75	10.92	5.82	56.95	288.66
49.68	49.84	30.05	44.66	50.16	13.75	12.40	6.40	55.59	312.53
44.88	48.08	27.95	36.19	44.16	13.90	11.40	5.58	52.70	284.84
47.44	52.80	31.50	41.86	46.32	14.15	10.80	7.10	55.93	307.70
45.12	44.64	27.05	36.33	44.72	14.75	10.92	5.84	60.01	289.38
50.64	52.32	33.70	43.33	53.52	15.25	12.68	7.10	59.33	327.87
49.60	48.48	30.90	40.18	47.20	14.60	11.28	6.22	60.52	308.98
47.44	46.80	27.10	38.43	47.12	14.40	10.48	6.30	58.65	296.72
47.60	48.24	28.75	39.48	46.72	14.55	10.60	6.70	55.76	298.40
47.52	50.16	28.50	40.67	48.16	15.60	11.28	6.94	58.99	307.82
58.48	60.40	36.30	50.05	55.92	18.10	14.24	7.08	62.90	363.47
47.52	48.00	28.20	37.94	46.08	14.35	11.80	5.36	54.06	293.31
52.64	48.00	29.75	39.13	50.80	14.05	11.28	6.10	62.22	313.97
51.44	51.36	33.10	41.72	49.04	15.50	12.92	7.32	61.37	323.77
49.60	48.08	27.80	40.53	46.72	15.60	11.08	5.96	52.70	298.07
44.48	45.44	27.35	37.03	42.40	15.25	10.32	6.34	53.04	281.65
54.40	54.16	30.05	43.12	49.44	16.25	14.00	7.02	62.56	331.90
54.32	53.36	34.80	43.82	48.72	16.95	13.52	7.52	56.10	329.11
43.44	45.84	27.75	38.01	44.32	14.55	11.56	5.42	39.44	270.33
55.20	56.16	33.90	46.83	51.36	15.60	12.04	7.22	60.86	339.17
49.68	49.20	27.70	38.71	47.60	16.20	11.00	7.16	57.12	304.37
47.20	51.28	28.90	38.85	44.80	13.65	14.76	7.76	52.70	299.90
48.96	47.44	29.85	39.20	45.28	14.90	11.20	6.42	56.78	300.03
51.60	50.08	29.25	42.56	50.96	15.85	12.92	7.38	57.12	317.72
53.44	50.96	29.25	42.77	56.56	16.00	11.16	6.72	56.61	323.47
51.20	50.40	30.40	42.35	51.76	15.55	12.32	7.02	53.21	314.21
53.12	52.56	32.80	43.54	52.24	15.45	14.48	7.12	53.55	324.86
44.80	45.20	26.20	36.05	41.76	15.65	10.44	6.66	56.10	282.86
47.12	46.24	28.20	39.20	45.04	15.30	12.24	6.94	57.12	297.40
47.92	48.96	31.00	39.97	44.72	15.10	11.52	5.80	54.06	299.05
48.00	48.40	29.20	38.64	43.76	17.35	13.40	6.84	53.72	299.31
49.68	46.88	30.10	40.81	47.84	14.25	10.72	5.94	54.23	300.45
49.92	56.32	33.65	41.23	53.84	15.50	12.52	5.74	54.42	323.14
44.48	48.24	30.60	36.33	43.28	13.80	10.36	6.06	60.18	293.33
44.72	47.76	25.75	37.73	42.80	14.35	11.28	5.98	58.14	288.51
50.08	53.04	30.30	41.44	50.32	15.95	13.12	6.36	56.95	317.56
52.56	51.84	31.85	44.38	52.48	15.35	13.20	6.64	58.65	326.95
43.20	44.00	27.55	38.01	44.32	13.90	10.64	5.92	57.80	285.34
56.08	57.44	35.85	47.74	53.52	16.60	13.20	7.22	61.88	349.53
50.24	53.12	33.55	40.67	48.32	14.15	13.24	6.38	56.10	315.77
51.44	50.80	33.70	43.61	51.20	15.65	12.32	6.42	61.88	327.02
47.84	53.12	31.25	41.02	44.00	13.55	11.32	5.86	61.37	309.33

Merit roll of the midshipmen of the graduating class (class of 1929),

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission		Sea service in practice ships	
				Years	Months	Months	Days
145	Hood, Alexander Haldeman	Pennsylvania	June 18, 1925	18	8	8	9
78	Huelskamp, Wilfred James	Minnesota	June 16, 1925	19	2	8	9
25	Huff, Gerald Lewis	Illinois	June 15, 1925	19	4	8	9
668	Humphrey, Pat List	Missouri	June 22, 1925	17	1	8	9
73	Hutchins, Edward Francis	New York	July 2, 1925	18	0	7	7
208	Hutchison, Charles Kenneth	Washington	June 22, 1925	18	1	8	9
88	Jackson, Roy	Iowa	June 15, 1925	19	10	7	7
141	Johansen, Gustave Norman	Rhode Island	Aug. 8, 1925	20	3	8	9
189	Johnson, Carl Arthur	New York	June 16, 1925	18	11	8	9
MC176	Johnson, Chandler Wilce	Illinois	June 17, 1925	19	8	7	11
203	Johnson, Francis Joseph	Texas	June 19, 1925	18	4	8	9
117	Johnson, Roy Lee	Louisiana	June 15, 1925	19	2	8	9
111	Jones, Loyd Hoadley	New York	June 17, 1925	19	11	8	9
168	Jordan, Francis Dixon	North Carolina	Aug. 17, 1925	19	2	8	9
*6	Junghans, Earl Austin	New York	July 3, 1925	18	2	8	9
18	Kabler, William Leverette	Virginia	June 22, 1925	16	9	8	9
46	Karrer, Harold Edward	Iowa	June 18, 1925	19	6	8	9
*10	Keatley, John Hancock	do	June 15, 1925	17	7	6	26
134	Keeler, Frederic Seward	Illinois	do	19	4	8	9
67	Kennedy, Marvin Granville	Missouri	Aug. 31, 1925	19	11	8	9
27	Kent, Thomas Everett, jr.	At large (Pres.)	July 11, 1925	16	11	8	9
b226	Keyes, Raymond Stedman, jr.	do	July 15, 1925	17	7	8	9
75	Kirk, Oliver Grafton	Ohio	June 19, 1925	17	9	8	9
180	Kohr, George Lester	Pennsylvania	June 17, 1925	18	2	7	28
155	Kuhn, Frederick William	New Jersey	do	17	4	8	9
MC196	Lake, James Bushrod, jr.	Louisiana	June 15, 1925	18	0	8	9
29	Lake, Richard Cross	Indiana	June 16, 1925	18	11	8	9
MC211	Lang, Harry Cox	New Jersey	July 14, 1925	19	11	8	9
83	Laning, Caleb Barrett	Missouri	Aug. 10, 1925	19	4	8	9
MC187	Ledbetter, Otho Christopher	California	Aug. 12, 1925	19	10	8	9
b178	Lincoln, Samuel Ankeney, jr.	Iowa	June 15, 1925	19	1	6	27
MC39	Lippert, Frederick George	Pennsylvania	June 24, 1925	17	2	7	2
148	Loomis, Almon Ellsworth	Oregon	June 16, 1925	18	9	8	9
197	Lucas, Albert Davis	Mississippi	do	18	2	8	9
52	Lynch, Ralph Clinton, jr.	New York	do	17	5	8	9
21	MacFarlane, Harold Archibald	Massachusetts	June 22, 1925	17	9	8	9
95	Mains, MacDonald Crawford	New York	Aug. 14, 1925	19	8	8	9
239	Marchant, William Alexander	do	June 24, 1924	19	11	11	5
81	Marcy, Clayton Clifton	Wyoming	June 22, 1925	19	5	8	9
112	Martin, Edwin Prather	Kentucky	June 17, 1925	18	5	8	9
170	Martin, Melvin Micajah	Georgia	June 27, 1925	16	8	8	9
240	Mattie, Dominic Lewis	New York	June 15, 1925	19	9	8	9
201	McAlpin, John Volney, jr.	At large (Pres.)	June 16, 1925	16	9	8	9
118	McCauley, Clayton Chot	Texas	June 26, 1925	18	1	8	9
96	McClure, William Howard	Kansas	June 16, 1925	19	4	6	17
26	McCoy, Robert Bruce	Ohio	do	19	3	8	9
224	McElroy, John Harper	Alabama	do	18	0	7	13
64	McGinnis, Robert De Vore	Ohio	Aug. 10, 1925	18	1	8	9
131	McGregor, Rob Roy	At large (Pres.)	June 16, 1925	18	4	8	9
80	McIntyre, Lee Emerson	Nebraska	June 15, 1925	19	3	8	9
174	McRoberts, Henry Johnston	Missouri	July 18, 1925	18	2	8	9
SC207	Meeker, Charles Alton	Oklahoma	July 8, 1925	20	3	7	7
149	Miller, Adolph Jerome	Illinois	June 15, 1925	20	2	8	9
200	Miller, Cleaveland Fenner	Rhode Island	June 16, 1925	17	11	8	9

243 members, for the last year of their academic course—Continued

Seaman- ship and flight tactics	Ordnance and gunnery	Naviga- tion	Engineer- ing and aero- nautics	Electrical engineer- ing and physics	English	Lan- guages	Hygiene	Aptitude for service	Aggre- gate, fourth year
Maximum									
64	64	40	56	64	20	16	8	68	400
49.60	48.24	29.40	37.73	48.16	13.25	10.44	6.26	58.48	301.56
50.48	52.40	32.35	41.02	46.96	14.90	11.64	6.10	59.50	315.35
55.36	54.16	34.70	42.56	49.44	16.10	13.80	7.10	62.05	335.27
50.96	52.40	36.05	43.75	51.12	14.05	13.52	6.68	49.30	317.83
47.52	50.88	31.75	41.37	46.56	13.70	14.16	6.62	64.26	316.82
48.00	52.56	30.80	36.89	44.96	13.95	10.92	5.32	46.41	289.81
46.72	50.32	32.20	39.34	49.44	14.00	11.16	6.18	63.75	313.11
49.68	47.92	26.75	40.74	45.44	15.20	11.76	6.78	58.65	302.92
46.00	48.08	26.80	39.27	43.04	13.90	10.88	6.22	59.33	293.52
47.04	49.92	29.60	40.88	48.24	13.85	10.28	6.26	49.81	295.88
47.12	45.92	27.70	39.83	45.84	14.10	11.00	5.40	54.40	291.31
47.76	49.20	32.25	41.02	47.52	14.40	11.32	6.50	57.29	307.26
50.16	53.68	32.40	38.22	45.60	15.00	14.16	6.44	52.19	307.84
47.44	47.12	27.00	39.34	48.56	14.20	11.72	6.20	55.76	297.35
58.32	56.16	34.40	46.41	54.32	17.20	15.44	7.72	60.69	350.66
54.64	55.76	35.75	45.99	53.52	16.90	10.68	7.14	59.33	339.71
55.52	52.24	30.05	44.24	47.60	16.15	15.24	6.86	57.80	325.70
53.84	55.20	35.80	45.08	53.04	16.05	13.80	6.92	64.43	344.16
48.16	50.80	31.65	39.97	48.24	14.95	11.16	6.60	52.70	304.23
51.04	50.56	31.00	40.46	48.40	14.85	11.96	6.18	63.58	318.03
56.24	53.28	33.70	43.19	53.12	15.70	12.12	7.00	60.69	335.04
47.12	46.88	26.95	36.68	43.92	13.70	11.52	5.86	51.51	284.14
49.68	51.28	31.30	42.84	50.64	14.05	11.48	6.70	57.80	315.77
47.36	47.92	30.05	38.01	44.24	13.85	10.88	6.26	56.61	295.18
48.08	49.84	31.85	39.20	47.52	13.70	13.92	5.96	49.30	299.37
50.56	46.16	26.05	40.53	46.08	14.35	11.20	6.76	51.17	292.86
55.60	54.08	33.55	44.73	51.44	16.30	12.00	6.82	60.18	334.70
46.64	44.40	26.80	37.17	42.48	15.90	11.04	6.68	57.80	288.91
50.24	51.92	31.15	40.46	48.16	16.40	13.60	6.72	55.93	314.58
48.40	48.08	26.50	37.17	43.44	15.70	12.08	5.80	56.44	293.61
46.40	47.68	28.30	38.92	45.04	14.70	10.48	5.90	57.97	295.39
53.04	52.00	33.80	41.72	51.92	15.80	14.72	6.60	59.33	328.93
46.56	48.56	28.80	39.27	45.76	13.70	11.24	6.40	60.52	300.81
46.32	47.36	28.80	38.29	43.76	15.65	10.56	6.28	55.59	292.61
52.08	52.00	31.55	43.19	51.76	14.25	11.76	6.44	60.86	323.89
55.28	53.12	32.90	44.03	51.44	16.65	14.16	6.44	64.94	338.96
48.64	48.88	29.60	40.46	48.32	16.45	14.52	6.92	57.97	311.76
45.28	44.64	26.30	36.26	43.60	13.30	10.40	6.76	49.47	276.01
50.80	52.24	30.85	41.72	49.84	14.90	11.28	6.32	56.78	314.73
49.92	52.88	30.70	40.88	46.72	15.45	10.32	6.90	54.06	307.83
47.04	48.24	30.55	39.20	48.32	14.25	10.96	6.10	52.53	297.19
42.88	44.24	25.30	38.15	41.36	13.20	10.52	6.04	52.87	274.56
45.20	46.88	29.75	37.17	46.48	13.20	10.92	5.60	56.61	291.81
47.68	48.80	28.95	41.09	47.44	14.10	10.96	6.44	61.20	306.66
49.76	50.80	31.20	43.68	49.44	13.80	10.44	6.58	55.76	311.46
55.84	51.36	31.95	44.17	51.36	17.00	13.68	6.64	63.24	335.24
44.24	43.12	27.10	38.50	43.84	13.30	11.36	5.88	57.12	284.46
51.20	52.64	29.15	42.35	50.08	16.90	13.48	7.48	58.14	321.42
48.32	50.32	28.20	38.57	45.20	15.25	10.72	6.04	61.88	304.50
51.12	52.08	33.80	39.90	47.20	15.95	10.24	5.72	58.82	314.83
48.16	45.52	28.50	39.06	47.76	15.10	10.96	6.22	55.42	296.70
46.96	48.56	27.60	39.55	44.80	13.20	11.44	5.52	52.36	289.99
48.16	50.08	29.10	40.18	44.24	13.55	10.60	5.88	58.82	300.61
45.76	45.52	28.05	37.73	45.44	14.55	11.48	6.60	56.78	291.91

Merit roll of the midshipmen of the graduating class (class of 1929),

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission		Sea service in practice ships	
				Years	Months	Months	Days
17	Miller, Clair LeMoine.....	Indiana.....	June 17, 1925	18	2	4	20
136	Mills, James Herve, jr.....	Oregon.....	June 16, 1925	19	2	8	9
146	Mitchell, Frank Paull, jr.....	New York.....	do.....	19	4	8	9
b48	Moore, Clarence Joseph.....	Ohio.....	July 6, 1925	17	7	8	9
30	Moore, John Raymond.....	Tennessee.....	June 22, 1925	19	8	8	9
168	Morgan, Charles Claude.....	Texas.....	June 23, 1925	17	7	7	7
31	Morse, Leonard Townsend.....	Massachusetts.....	do.....	17	4	5	1
MC61	Murray, Homer Carr.....	Mississippi.....	do.....	19	3	8	9
b125	Nash, Herbert.....	California.....	June 15, 1925	19	0	8	9
b205½	Nelson, Hugo Adolphus.....	Kansas.....	Aug. 19, 1924	18	6	5	15
137	Nelson, Paul John.....	Massachusetts.....	June 17, 1925	19	9	8	9
181	Nielsen, Harold.....	Rhode Island.....	June 22, 1925	19	8	5	15
28	Novak, Frank.....	New Jersey.....	June 16, 1925	18	6	8	9
89	O'Donnell, Edward Joseph.....	Massachusetts.....	June 18, 1925	18	2	8	9
237	Oliver, William.....	Maine.....	June 16, 1925	18	3	8	9
235	Osborn, Philip Ransom.....	Missouri.....	Aug. 11, 1925	18	8	8	4
53	Parish, Elliott Walter, jr.....	Georgia.....	June 16, 1925	18	8	5	18
87	Patrick, Goldsborough Serpell.....	At large (Pres.).....	June 22, 1925	18	2	8	9
98	Pennewill, William Ellison.....	Delaware.....	June 18, 1925	18	4	8	9
45	Perkins, Albert Carson.....	Idaho.....	June 15, 1925	20	0	8	9
161	Perreault, Seraphin Bach.....	Kansas.....	June 17, 1925	17	10	8	9
22	Persons, Henry Stanford, jr.....	Alabama.....	do.....	18	6	8	9
77	Peterson, Carl Arthur.....	Connecticut.....	June 15, 1925	16	9	8	9
198	Phillips, Charles Frederick.....	Indiana.....	Aug. 18, 1924	19	3	11	5
140	Prause, Jack Hamilton.....	California.....	June 15, 1925	19	4	8	9
*2	Pryor, Knight.....	At large (Pres.).....	do.....	17	0	8	9
129	Raby, John.....	Michigan.....	June 16, 1925	17	8	8	9
49	Ramsbotham, Robert Joynson.....	New Jersey.....	July 6, 1925	16	3	8	9
50	Ray, Herman Lamar.....	Mississippi.....	June 16, 1925	17	6	8	9
182	Rembert, John Patrick, jr.....	Texas.....	June 22, 1925	17	8	8	9
*11	Richardson, Leslie Edward.....	Colorado.....	June 15, 1925	19	10	8	9
234	Richter, William Julius.....	Wisconsin.....	June 19, 1925	20	0	8	9
40	Ricketts, Claude Vernon.....	Kansas.....	Aug. 28, 1925	19	6	6	3
MC179	Roberts, Clyde Cameron.....	Minnesota.....	June 15, 1925	20	1	8	9
MC229	Roberts, Deane Carroll.....	Oklahoma.....	do.....	19	1	8	9
115	Rodimon, Warner Scott.....	Massachusetts.....	June 17, 1925	17	9	8	9
220	Rooney, Roderick Shanahan.....	New York.....	do.....	16	8	8	9
185	Roth, Egbert Adolph.....	North Dakota.....	June 16, 1925	19	6	7	28
194	Roughton, Emery.....	Ohio.....	June 17, 1925	18	10	8	9
82	Schreiber, Earl Tobias.....	Pennsylvania.....	June 27, 1925	18	3	8	9
MC98	Schwable, Frank Hawse.....	At large (Pres.).....	June 15, 1925	16	11	8	9
192	Sharp, George Arthur.....	Connecticut.....	do.....	19	3	7	28
*5	Shute, Corben Clark.....	At large (Pres.).....	June 16, 1925	18	3	8	9
218	Simpler, Leroy Coard.....	Delaware.....	do.....	19	11	8	9
204	St. Angelo, Augustus Robert.....	Rhode Island.....	July 6, 1925	17	10	8	9
183	Stephan, Edward Clark.....	Minnesota.....	June 29, 1925	18	1	8	9
122	Stephens, Frank Briscoe.....	Illinois.....	July 21, 1925	19	6	5	29
213	Stewart, Claude Weaver.....	Oklahoma.....	June 15, 1925	17	1	8	9
225	Stillman, Donald Frederick.....	Wisconsin.....	July 11, 1925	18	6	8	9
121	Stone, Lowell Thornton.....	Minnesota.....	July 10, 1925	18	8	8	9
193	Stovall, William Shirley, jr.....	Mississippi.....	June 17, 1925	17	7	5	1
71	Strahorn, Albert Wesley.....	Delaware.....	June 15, 1925	19	6	8	9
143	Strong, Stanley Carter.....	Minnesota.....	June 16, 1925	20	1	6	27
MC142	Sullivan, Raymond Brooks, jr.....	Colorado.....	June 15, 1925	18	7	8	9

243 members, for the last year of their academic course—Continued

Seaman- ship and flight tactics	Ordnance and gunnery	Naviga- tion	Engineer- ing and aero- nautics	Electrical engineer- ing and physics	English	Lan- guages	Hygiene	Aptitude for service	Aggre- gate, fourth year
Maximum									
64	64	40	56	64	20	16	8	68	400
51.28	56.48	35.45	43.89	52.24	16.85	13.72	6.46	63.41	339.78
49.52	49.68	29.65	40.39	50.24	13.75	10.56	6.58	53.38	303.75
47.92	53.04	28.15	39.41	46.72	16.00	12.32	7.24	50.49	301.29
52.16	53.04	30.95	39.97	52.32	16.10	13.44	6.84	60.01	324.83
54.56	54.72	32.35	46.27	52.72	15.60	11.00	7.56	59.16	333.94
48.64	47.12	28.35	40.74	47.92	14.30	10.76	5.62	53.89	297.34
53.60	53.92	31.25	42.91	52.48	15.75	14.56	6.72	62.73	333.92
52.24	54.08	31.90	40.39	47.76	15.45	12.20	6.44	61.71	322.17
50.16	49.44	28.50	40.25	45.92	14.25	12.80	7.26	57.29	305.87
44.32	45.60	27.95	37.94	46.40	14.95	11.08	6.12	55.93	290.29
48.72	48.72	29.05	39.76	48.08	15.55	12.40	6.52	54.74	503.54
45.68	48.64	28.10	38.43	42.88	14.25	12.16	6.86	57.97	294.97
53.36	54.56	34.10	43.05	54.40	14.60	12.44	6.64	61.71	334.86
49.92	53.20	29.85	41.02	48.80	15.30	12.68	6.50	55.59	312.66
45.04	46.40	28.00	36.40	43.36	13.35	10.64	5.12	48.62	176.93
45.20	45.12	26.60	37.52	43.76	16.00	10.80	5.88	47.94	278.82
50.80	53.10	31.40	40.81	50.00	15.15	11.24	6.86	64.26	323.82
47.20	53.20	32.65	40.19	47.76	14.20	11.28	6.84	59.67	313.19
47.92	51.12	29.75	40.67	47.84	14.85	10.32	6.32	62.39	311.18
51.04	52.72	33.85	44.17	47.52	15.25	12.12	7.14	62.73	326.54
46.64	48.40	32.35	38.15	45.28	13.65	12.76	6.44	54.91	298.58
52.80	54.56	34.25	43.26	52.48	17.10	12.84	6.80	64.26	338.35
51.04	52.56	30.00	42.70	48.08	15.60	13.76	6.66	55.25	315.65
44.24	48.32	27.80	57.80	45.52	14.45	10.40	6.08	57.97	292.58
49.04	50.08	28.10	39.06	45.20	13.85	11.40	6.54	59.67	302.94
57.92	57.68	37.30	49.07	55.20	18.30	14.60	7.32	62.39	359.78
50.64	49.76	29.80	38.43	47.68	15.35	10.32	7.28	55.59	304.85
54.08	52.48	33.45	41.65	49.28	16.70	12.12	6.36	57.97	324.09
52.32	55.84	32.15	43.75	50.72	14.70	11.32	6.82	56.44	324.06
46.80	47.12	27.65	37.59	44.56	14.35	10.32	5.94	60.52	294.85
52.16	56.80	34.20	45.29	53.44	16.30	13.52	7.22	65.11	344.04
46.32	45.04	28.20	36.96	42.48	13.85	11.28	5.88	48.96	278.97
50.48	51.92	32.90	42.91	50.80	15.15	13.48	6.58	64.43	328.65
48.72	48.64	28.95	40.11	45.04	15.00	10.72	6.16	51.85	295.19
46.88	44.24	27.15	36.96	43.92	14.50	10.36	6.16	53.21	283.38
49.44	51.76	50.35	39.13	44.56	16.75	12.92	6.64	56.10	307.65
46.96	45.84	26.75	38.01	43.92	16.30	12.76	6.64	50.66	287.84
44.96	46.72	29.90	37.59	43.36	14.85	10.56	5.58	60.69	294.21
47.12	45.52	26.20	39.20	46.88	14.45	10.84	7.36	55.59	293.16
50.40	50.40	29.40	41.23	47.60	14.00	11.52	6.98	63.07	314.60
49.52	51.04	29.75	42.35	48.72	14.35	11.52	6.16	58.99	312.40
45.76	47.92	30.45	35.84	42.96	13.75	11.60	5.98	58.99	293.25
55.60	58.24	35.50	48.58	58.96	16.45	11.60	7.48	61.03	353.44
46.80	44.64	27.95	38.01	44.40	14.15	10.52	6.20	55.25	287.92
45.28	45.92	27.25	37.80	45.68	13.35	13.48	5.74	56.78	291.28
45.36	46.16	29.65	39.69	46.64	15.10	11.00	6.64	54.57	294.81
46.96	52.48	32.35	39.76	47.92	15.25	10.52	6.18	54.57	305.99
49.04	46.24	26.65	37.10	44.32	15.00	11.04	7.12	52.02	288.53
47.12	45.44	26.75	36.40	44.48	13.50	10.64	6.68	53.21	284.22
49.84	47.76	29.25	41.02	51.76	16.85	10.64	6.90	52.19	306.21
46.80	48.24	28.10	37.24	45.76	13.80	10.88	7.00	55.42	293.24
50.48	50.88	31.55	40.18	48.00	15.55	10.96	7.00	62.90	317.50
49.04	49.76	31.40	41.23	45.60	15.60	11.20	5.92	52.19	301.94
49.68	49.44	29.25	39.69	46.80	14.50	11.56	6.54	54.74	302.20

Merit roll of the midshipmen of the graduating class (class of 1929),

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission		Sea service in practice ships	
				Years	Months	Months	Days
202	Tolley, Kemp.....	Maryland.....	June 16, 1925	17	2	8	9
*16	Trescott, Charles Edward.....	Ohio.....	June 17, 1925	18	8	8	9
90	Triebel, Charles Otto.....	Illinois.....	June 16, 1925	17	7	8	9
58	Twohy, Henry Bell.....	Washington.....	June 30, 1925	18	12	7	7
59	Van Voorhis, Bruce Avery.....	Nevada.....	June 17, 1925	17	5	8	9
227	Visser, Richard Gerben.....	Massachusetts.....	July 11, 1925	18	8	8	9
*15	Wait, Delos Edwin.....	Arkansas.....	June 17, 1925	19	7	8	9
*12	Wales, George Herrick.....	Vermont.....	June 29, 1925	16	6	8	9
221	Walker, Calvin Alexander, jr.....	North Carolina.....	Aug. 3, 1925	19	3	8	9
b236	Walker, Hiram Street, jr.....	Alabama.....	July 3, 1924	20	0	8	14
62	Walker, Philip Andrew.....	Iowa.....	June 16, 1925	17	11	8	9
186	Waltermire, William Glen.....	Ohio.....	June 17, 1925	18	8	8	9
MC177	Warfield, Charles Dorsey.....	Pennsylvania.....	June 16, 1925	19	2	8	9
74	Waterhouse, Jacob Wilson.....	West Virginia.....	do.....	18	10	8	9
109	Watson, William Henry, jr.....	Florida.....	June 24, 1925	17	7	8	9
19	Weakley, Charles Enright.....	Missouri.....	June 16, 1925	19	0	7	7
*3	Webster, John Bartholomew.....	California.....	June 15, 1925	18	8	8	9
172	Weiss, Donald Frederick.....	Massachusetts.....	July 9, 1925	18	11	8	9
139	Welsh, David James.....	New York.....	June 17, 1925	19	10	7	28
238	White, Albert Francis.....	New Jersey.....	do.....	18	9	8	9
79	White, William Waldron.....	North Carolina.....	June 18, 1925	16	8	8	9
157	Wilkinson, Robert Holden.....	Florida.....	July 8, 1924	19	7	11	5
32	Wilson, Thomas Payne.....	Illinois.....	June 22, 1925	17	8	8	9
51	Wilson, Thomas Rex.....	Michigan.....	do.....	17	1	5	1
188	Woerner, Paul Leslie.....	Pennsylvania.....	June 16, 1925	19	9	4	21
215	Wotton, Albert Harry.....	Illinois.....	June 24, 1924	19	10	11	5
*13	Wyatt, Mathis Beally.....	South Carolina.....	June 17, 1925	17	8	8	9
103	Yoho, John Richard.....	Oregon.....	June 25, 1925	16	9	8	9

243 members, for the last year of their academic course—Continued

Seaman- ship and flight tactics	Ordnance and gunnery	Naviga- tion	Engineer- ing and aero- nautics	Electrical engineer- ing and physics	English	Lan- guages	Hygiene	Aptitude for service	Aggre- gate, fourth year
Maximum									
64	64	40	56	64	20	16	8	68	400
47.68	47.52	28.60	38.85	44.56	14.65	11.96	7.28	50.66	291.76
53.12	55.12	34.75	45.64	50.08	16.25	13.20	6.62	65.28	340.06
47.20	52.16	32.25	39.83	48.88	15.70	11.44	6.66	58.43	312.60
53.28	55.52	34.75	40.53	51.36	17.05	13.24	5.92	51.00	322.65
52.48	57.60	34.30	43.54	48.16	15.50	12.08	6.54	52.36	322.56
46.48	45.84	26.85	37.10	42.56	13.65	11.64	6.46	53.55	284.13
55.20	53.28	34.55	46.41	53.68	15.20	14.68	6.54	62.39	341.93
54.88	58.24	34.55	45.29	52.32	16.20	13.12	6.60	62.39	343.59
45.92	48.48	27.65	36.68	44.64	13.35	10.28	6.16	54.23	287.39
43.44	44.32	26.40	36.61	42.32	13.30	10.32	5.98	54.74	277.43
51.44	51.60	29.85	38.85	50.40	17.45	14.52	6.86	61.03	322.00
46.08	49.76	28.05	38.43	44.72	15.80	10.76	5.72	54.57	293.89
47.60	46.96	29.15	37.66	44.96	13.55	11.56	6.26	57.80	295.50
48.24	53.44	33.55	39.48	48.16	13.95	11.16	6.40	61.71	316.09
48.64	49.92	28.85	39.13	45.12	14.90	12.92	6.58	62.05	308.11
52.48	56.56	33.05	45.43	52.24	15.90	12.32	6.42	65.11	339.51
56.32	58.96	36.75	49.84	60.88	16.60	14.76	7.18	58.14	359.43
47.36	46.96	29.80	38.71	44.08	14.35	10.84	5.88	58.82	296.80
52.08	46.56	26.25	38.78	44.72	14.40	11.16	6.36	62.90	303.21
45.36	44.08	26.65	36.05	42.80	13.50	10.28	5.64	52.02	276.38
49.04	52.24	32.05	39.41	46.48	15.05	12.56	6.08	62.39	315.30
47.20	45.28	27.25	39.34	45.04	15.35	13.04	6.56	60.18	299.24
53.92	53.20	33.05	45.50	52.80	15.35	11.32	7.36	61.20	333.70
50.88	55.04	32.85	40.74	51.12	14.15	13.04	6.88	59.33	324.03
45.28	46.72	27.90	38.01	44.24	14.00	11.68	5.88	59.84	293.55
44.32	45.04	27.10	39.41	45.84	13.40	10.80	6.66	55.76	288.33
56.64	55.12	32.15	46.41	52.72	16.65	11.32	7.12	64.60	342.73
50.72	50.72	32.40	40.11	50.40	14.05	11.88	5.98	52.70	308.96

Merit roll of the midshipmen of the present first class (class of 1930),

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission		Sea service in practice ships	
				Years	Months	Months	Days
219	Adams, Carlton Rolla	North Carolina	Sept. 1, 1926	18	5	8	9
248	Adams, Scarritt	New York	June 15, 1926	19	3	8	9
74	Adkins, James Alvin	District of Columbia	do	17	0	8	9
120	Agnew, Jack	Texas	June 22, 1926	16	10	8	9
92	Ailes, John William, III	Pennsylvania	do	18	9	8	9
*6	Alexander, Stanley Morton	Illinois	June 29, 1926	17	3	8	9
89	Allen, Burrell Clinton, jr	Connecticut	June 28, 1926	17	5	8	9
234	Allen, William Young, jr	Texas	June 15, 1926	18	4	7	28
382	Andrada, José Villagracia	Philippine Islands	Aug. 23, 1926	17	6	8	9
235	Andrews, Charles Herbert	Connecticut	June 15, 1926	18	1	8	9
217	Armstrong, John Hord, jr	Kentucky	Aug. 23, 1926	18	11	8	9
193	Arwine, Shryock Mandville	At large (Pres.)	June 15, 1926	16	7	8	9
317	Ashton, Arthur Harold	Connecticut	June 29, 1926	18	6	8	9
*8	Atkins, Griswold Terry	do	June 21, 1926	16	5	8	9
316	Azer, John Behling	Illinois	June 16, 1926	19	7	8	9
184	Badger, Harry Peaslee	New York	July 13, 1926	18	9	8	9
65	Bardwell, Francis Emerson	do	June 21, 1926	18	11	8	9
403	Barrett, Arthur Jenkins, jr	Massachusetts	June 28, 1926	18	8	8	9
124	Bates, Richard Harned	New York	Sept. 3, 1926	18	7	8	9
54	Bauer, Harold William	Nebraska	June 22, 1926	17	7	5	7
274	Bauer, Rudolph Charles	New York	June 21, 1926	19	9	5	18
56	Beans, Fred Dale	Texas	June 18, 1926	19	8	5	18
255	Bisson, John Kenneth	Illinois	June 28, 1926	19	7	8	9
151	Blackburn, Paul Prichard, jr	Nebraska	June 14, 1926	17	5	8	9
395	Blanchard, Boyd Edward	Maine	July 15, 1926	17	0	8	9
272	Blanning, Edwin Joseph, jr	Pennsylvania	Sept. 2, 1926	19	11	8	9
360	Blemker, Nyle Louis	Iowa	June 29, 1926	16	10	8	9
284	Block, Everett Milton	Illinois	June 28, 1926	18	4	8	9
187	Bourgeois, Aubrey Joseph	Louisiana	June 17, 1925	17	6	11	3
289	Bowen, John Bunyan, jr	Georgia	June 15, 1926	18	6	8	9
189	Boyd, Alston Maury, jr	Tennessee	June 16, 1925	19	5	11	3
229	Boyle, Lee DeVall	Iowa	June 14, 1926	19	3	8	9
154	Boyle, Stewart	New Jersey	June 17, 1926	17	9	8	9
194	Bradman, Frederic Cushing	At large (Pres.)	June 21, 1926	18	0	7	24
213	Brady, Parke Howle	Ohio	June 22, 1926	18	9	8	9
209	Breault, John Louis, jr	Massachusetts	do	19	8	5	15
303	Briner, Harmon Vedder	New Jersey	June 14, 1926	17	8	8	9
*14	Briner, Richard Robert	do	July 8, 1926	18	10	8	9
371	Bristol, John Morgan	Ohio	June 15, 1926	18	7	8	9
170	Brodie, George Keeney	Kentucky	June 17, 1926	18	6	8	9
310	Brokenshire, Douglas Best	New Hampshire	June 15, 1926	17	0	8	9
85½	Brook, Charles Bates	Maryland	June 18, 1926	19	9	8	9
*7	Browne, Oscar Morrison, jr	Illinois	June 14, 1926	19	9	8	9
227	Brumby, Edward	Massachusetts	July 13, 1926	18	5	8	9
404	Brunton, Lawrence Collins	California	June 18, 1926	19	4	8	9
137	Burden, Harvey Paul	Texas	June 15, 1926	16	5	8	9
159	Burgess, John Grafton	Minnesota	Aug. 11, 1926	19	3	6	17
61	Burgett, William Ano	Colorado	June 18, 1926	18	10	8	9
98	Burns, Martin Charles	Washington	June 15, 1926	17	1	8	9
87	Butler, William Clayton, jr	Virginia	June 21, 1926	18	9	8	9
87	Butterfield, George Nelson	Vermont	June 16, 1926	18	4	8	9
339	Cable, Thomas Hamilton	Kansas	June 17, 1926	19	1	8	9
282	Caillouet, Jean Louis, jr	Louisiana	June 16, 1925	17	5	8	9
349	Campbell, Norwood Axtell	Indiana	June 28, 1926	19	0	7	28
156	Canaday, Harry Ridge	Iowa	do	17	1	8	9

for the third year of their academic course, 416 members, June, 1929

Seaman- ship and flight tactics	Ordnance and gun- nery	Navigation	Engineer- ing and aero- nautics	Mathe- matics	Electrical engineer- ing and physics	Lang- uages	Aptitude for service	Aggregate third year
Maximum								
24	24	48	56	36	48	16	48	300
17.70	17.64	35.40	39.26	29.16	36.68	11.88	38.52	226.24
18.72	19.20	37.38	39.88	23.58	32.68	13.36	38.28	222.58
19.62	19.92	40.56	40.86	29.88	37.68	13.76	39.36	241.64
18.90	18.84	36.96	41.72	27.90	39.44	14.16	36.72	234.64
19.08	20.16	39.36	41.94	29.25	39.16	11.96	38.16	239.07
22.02	21.00	41.16	46.96	30.51	41.60	14.04	43.68	260.97
19.68	18.90	38.64	42.46	27.90	40.56	12.36	39.36	239.86
16.86	18.96	33.42	39.92	24.03	34.60	12.92	43.20	223.91
15.66	16.32	34.08	36.78	23.94	32.28	12.20	38.52	209.78
18.54	18.06	33.54	40.72	24.66	34.08	12.04	42.24	223.88
17.52	18.54	35.82	39.92	25.47	36.28	12.96	39.84	226.35
18.90	20.58	38.22	39.98	28.53	36.24	13.04	32.40	227.89
17.04	17.76	33.12	39.26	25.56	32.08	12.44	39.72	216.98
20.88	21.00	43.32	48.82	31.59	43.88	12.20	38.52	260.21
16.98	17.34	33.48	38.80	24.57	32.04	11.44	42.36	217.01
19.20	20.10	36.66	41.78	25.65	35.76	11.48	37.68	228.31
19.14	20.10	39.96	43.04	27.99	38.52	12.72	41.04	242.51
15.72	16.68	32.28	36.72	23.13	30.52	10.72	38.76	204.53
18.66	19.80	37.50	42.60	27.36	35.84	13.24	39.24	234.24
17.94	19.02	40.86	44.46	30.42	40.20	12.48	39.60	244.98
16.98	17.40	35.88	39.30	26.10	34.68	12.16	38.88	221.38
18.96	18.84	38.34	42.88	30.78	41.92	11.80	40.56	244.08
17.04	18.00	36.66	39.72	25.92	34.72	11.24	39.00	222.30
20.58	20.52	37.14	41.38	25.20	34.32	12.76	39.96	231.86
16.62	17.04	30.78	37.46	23.58	31.52	11.80	58.04	206.84
17.16	17.94	55.16	40.68	24.93	35.32	10.72	39.48	221.39
16.98	15.42	33.06	37.18	24.48	31.92	13.08	40.20	212.32
17.28	17.28	34.92	38.36	25.83	35.84	11.20	39.60	220.31
18.18	17.88	35.76	38.92	26.37	36.36	12.68	42.00	228.15
18.00	16.74	37.20	38.18	25.47	34.76	12.00	37.56	219.91
18.60	18.78	40.08	41.08	26.64	35.16	10.72	37.08	228.61
18.18	17.46	38.22	38.08	25.83	34.56	12.60	39.72	224.24
18.54	18.78	36.66	39.82	26.46	37.76	11.84	41.76	231.65
18.24	16.50	37.86	37.92	26.19	33.72	13.56	43.80	227.79
18.12	19.80	34.38	40.68	23.67	34.36	12.64	43.08	226.73
18.00	20.40	37.50	43.38	24.66	35.68	12.00	35.28	226.90
16.14	15.24	36.54	38.26	27.27	34.92	12.32	37.32	218.01
20.40	20.88	39.60	48.76	31.41	41.48	13.08	41.64	257.25
16.38	16.38	34.50	37.24	24.12	31.76	11.52	39.60	211.50
17.58	20.34	36.84	43.44	25.74	37.80	11.04	37.56	230.34
16.50	16.98	33.78	38.32	25.83	32.64	12.08	41.40	217.53
20.10	19.92	37.50	45.14	27.99	38.60	13.40	37.68	240.33
21.72	21.12	41.40	47.60	30.06	41.96	13.24	43.68	260.78
18.90	17.04	38.22	38.48	26.46	34.84	12.04	39.48	225.46
16.20	16.74	31.08	36.30	23.31	30.40	10.40	39.24	203.67
18.90	19.98	39.30	43.28	24.03	38.48	10.32	38.76	233.05
18.54	19.08	34.56	41.54	26.82	36.76	12.52	41.40	231.22
18.72	18.90	40.26	43.92	29.70	39.16	12.40	40.08	243.14
18.72	18.30	39.36	39.62	28.98	35.96	13.96	42.96	237.86
18.78	18.00	40.32	39.36	29.43	38.48	13.28	42.24	239.89
18.48	18.36	38.22	42.20	30.51	41.04	11.12	39.96	239.89
15.78	18.42	31.86	39.78	23.85	31.08	11.24	42.84	214.85
17.82	18.36	33.78	39.42	25.47	33.24	10.64	41.64	220.37
16.32	16.86	33.78	36.22	25.56	33.20	10.52	41.52	213.98
18.12	18.30	37.56	40.68	26.82	36.44	13.40	40.08	231.40

Merit roll of the midshipmen of the present first class (class of 1930), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission		Sea service in practice ships	
				Years	Months	Months	Days
#412	Cardwell, Larry.....	District of Columbia	(See explanation of symbol.)	-----	-----	10	13
130	Carmick, Edward Seabury.....	do.....	July 13, 1926	18	4	8	9
129	Carpenter, Gilbert Crowell.....	Michigan.....	July 17, 1926	16	10	8	9
297	Carter, Francis Miller.....	Kansas.....	June 16, 1926	18	9	8	9
320	Cass, Richard Stuart.....	Iowa.....	June 28, 1926	17	9	5	10
59	Chafee, George Benedict.....	Florida.....	July 8, 1926	17	6	8	9
208	Chambers, George Mitchell.....	Michigan.....	June 14, 1926	19	5	7	29
386	Chapple, Wreford Goss.....	Montana.....	June 28, 1926	18	3	5	18
315	Charneco, Carlos Mario.....	Porto Rico.....	June 16, 1925	19	5	10	7
334	Clark, Baylies Voorheis.....	California.....	June 16, 1926	17	5	8	9
110	Clark, Henry Garner.....	Kentucky.....	do.....	16	11	8	9
177	Clarkson, James Stroud.....	New Jersey.....	do.....	19	6	8	9
399	Clifton, Joseph Clinton.....	Kentucky.....	do.....	18	8	5	5
g252	Close, Leslie Pinckney.....	Georgia.....	June 23, 1926	18	3	5	15
46	Coates, Leonidas Dixon, jr.....	California.....	June 16, 1926	18	8	8	9
331	Coates, Robert Foresman.....	Wisconsin.....	June 21, 1926	17	1	8	9
276	Coe, James Wiggins.....	Indiana.....	July 1, 1926	17	1	8	9
352	Coffee, Doyle Murray.....	Alabama.....	June 15, 1926	17	9	8	9
264	Colestock, Edward Emerson.....	Pennsylvania.....	do.....	19	4	8	9
212	Conn, Richard John Hugh.....	Iowa.....	June 28, 1926	18	9	7	28
410	Conner, Ray Russell.....	West Virginia.....	June 18, 1925	20	2	11	3
236	Cook, George.....	New Jersey.....	June 16, 1926	19	6	6	3
126	Corbus, John.....	California.....	July 6, 1926	18	8	8	9
138	Corey, Howard Grant.....	do.....	June 14, 1926	19	1	8	9
33	Craig, John Rich.....	Florida.....	June 15, 1926	19	9	8	9
158	Craighill, Robert Rutherford.....	Illinois.....	Aug. 9, 1926	18	9	8	9
269	Curley, Kyran Edward.....	New York.....	July 9, 1926	17	1	8	9
320	Cushing, Dana Buckley.....	Massachusetts.....	Aug. 30, 1926	18	6	8	9
353	Dallman, David Edward.....	Wisconsin.....	July 9, 1926	17	11	8	9
79	Dally, Ruel Stuart.....	Minnesota.....	Aug. 12, 1925	19	8	7	28
311	Daly, James Michael.....	New York.....	July 13, 1926	18	6	8	9
182	Davis, James White.....	Missouri.....	June 24, 1926	19	8	8	9
287	Davis, John Malcolm.....	Kentucky.....	June 16, 1926	19	10	8	9
347	Dealey, Samuel David.....	Texas.....	Aug. 30, 1926	20	0	8	9
112	Dennis, Jefferson Rice.....	Colorado.....	June 22, 1926	17	2	8	9
*20	de Vos, Paul Louis.....	Arizona.....	June 15, 1926	18	7	8	9
269	Dimmick, John Bagley.....	Michigan.....	June 18, 1926	18	10	8	9
37	Dodge, Harry Benjamin.....	Maine.....	June 14, 1926	20	0	8	9
99	Dodson, Joseph Edward.....	Texas.....	June 28, 1926	16	10	8	9
220	Dorner, Edward Paul.....	Nebraska.....	do.....	19	11	5	15
50	Dornin, Marshall Edgar.....	California.....	June 15, 1926	18	5	8	9
111	Dorsey, Jack Sidney.....	Florida.....	June 18, 1926	19	2	8	9
408	Douglass, Albert Pike.....	Alabama.....	June 15, 1926	18	0	7	23
52	Douw, Volckert Petrus.....	Maryland.....	July 13, 1926	19	4	8	9
290	Doyle, William Thomas, jr.....	Illinois.....	June 16, 1926	18	5	8	9
237	Drake, Nels D'Arcy.....	At large (Pres.).....	June 15, 1926	16	10	5	1
146	Drane, William McClure.....	Tennessee.....	Aug. 30, 1926	19	11	8	9
355	Dunn, Elmer Jackson.....	Arkansas.....	June 15, 1926	20	1	8	9
387	Duryea, Harold Edward.....	New York.....	June 22, 1926	18	9	8	9
263	Earl, Charles Edward.....	Georgia.....	June 15, 1926	18	5	8	9
109	Earle, Otis John.....	Pennsylvania.....	Aug. 7, 1926	18	0	8	9
260	Ebert, Walter Gale.....	West Virginia.....	July 14, 1926	16	11	8	9
306	Eddy, Ian Crawford.....	New York.....	June 18, 1926	20	0	2	25

third year of their academic course, 416 members, June, 1929—Continued

Seaman- ship and flight tactics	Ordnance and gun- nery	Navigation	Engineer- ing and aero- nautics	Mathe- matics	Electrical engineer- ing and physics	Lan- guages	Aptitude for service	Aggregate third year
Maximum								
24	24	48	56	36	48	16	48	300
15.48	15.72	33.60	34.88	23.49	30.20	10.84	35.52	199.73
19.20	19.92	37.74	40.88	27.09	35.56	13.28	40.08	233.75
17.82	18.66	38.88	40.14	29.25	38.28	11.76	39.00	233.79
17.70	17.76	33.48	40.66	25.11	34.88	10.96	38.04	218.59
17.22	16.26	34.14	37.48	23.85	34.56	13.68	39.48	216.67
19.08	19.62	42.48	42.46	28.80	38.68	11.00	41.52	243.64
19.26	18.18	37.44	39.40	25.83	34.64	11.60	40.56	226.91
16.32	16.20	31.26	37.32	25.38	32.52	10.28	39.72	209.00
15.54	16.68	32.76	38.26	26.82	31.80	15.60	39.72	217.18
16.86	18.24	32.22	40.68	32.31	34.44	10.60	39.12	215.47
18.18	18.66	39.30	39.82	32.31	40.52	11.04	36.84	236.67
17.82	19.68	36.66	39.86	26.55	35.44	12.48	40.80	229.29
16.68	16.56	31.74	36.84	23.94	32.20	10.52	36.72	205.20
17.64	17.88	37.20	38.50	25.11	34.60	10.64	40.92	222.49
19.68	19.32	41.22	45.72	28.26	42.08	13.68	36.84	246.80
17.22	16.80	34.08	37.76	23.85	33.68	13.12	39.24	215.75
19.20	19.08	35.16	39.82	24.57	33.28	11.12	38.52	220.75
17.88	18.36	33.36	39.18	23.58	33.52	10.52	37.56	213.96
17.22	18.90	35.52	38.24	24.66	35.56	11.32	40.44	221.86
18.12	19.38	35.16	40.52	25.02	35.92	11.40	41.28	226.80
15.60	16.56	32.10	36.20	23.13	30.28	10.60	36.96	201.43
16.80	18.18	33.60	39.40	25.20	35.96	12.36	42.36	223.86
19.08	18.90	35.46	41.08	26.73	37.32	12.24	43.08	233.89
19.62	19.26	34.26	42.26	24.03	37.32	12.80	43.20	232.75
20.94	21.24	40.62	45.40	27.72	42.72	11.44	41.28	251.36
17.64	18.60	37.50	40.64	25.29	37.24	12.72	41.64	231.27
16.86	17.52	38.52	38.74	26.64	32.68	12.80	37.80	221.56
17.46	18.18	32.28	38.26	24.21	32.60	12.16	41.52	216.67
16.80	18.24	32.64	37.88	23.67	32.84	11.12	40.68	213.87
17.28	19.44	40.26	40.66	30.24	41.16	10.96	41.16	241.16
17.46	16.98	34.02	37.94	24.48	34.16	12.04	40.44	217.52
18.78	19.20	36.48	40.62	25.20	34.52	12.72	41.16	228.68
18.72	17.88	35.88	41.12	23.67	35.44	11.00	36.24	219.95
16.86	16.56	32.52	38.36	24.66	32.04	11.84	41.40	214.24
19.68	19.02	37.68	41.74	26.91	39.36	13.88	38.16	236.43
19.38	20.76	39.06	45.12	32.22	41.00	14.32	43.68	255.54
18.48	17.34	33.78	37.04	27.00	36.16	11.20	40.56	221.56
20.76	20.76	41.70	43.48	29.25	40.88	13.08	40.08	249.99
20.34	18.96	38.34	41.42	27.81	37.80	12.44	40.44	237.55
18.18	18.48	35.94	40.76	25.92	36.04	11.92	38.88	226.12
20.64	20.04	38.40	46.04	26.64	37.40	14.48	42.12	245.76
19.08	19.26	36.12	42.22	24.84	39.80	11.80	43.32	236.44
16.38	15.78	31.26	36.18	22.86	31.04	13.72	35.28	202.50
19.86	19.38	40.80	42.90	27.81	40.36	13.36	40.80	245.27
16.86	17.70	35.46	41.68	25.83	32.84	11.40	38.04	219.81
17.40	18.06	33.90	40.68	25.56	35.00	12.16	41.04	223.80
17.88	19.02	38.34	42.64	26.73	37.00	11.44	39.36	232.41
17.28	17.22	33.72	38.68	24.57	31.96	10.52	39.72	213.67
16.62	16.68	34.74	37.72	23.31	32.20	11.80	35.88	208.95
18.60	16.86	35.58	39.04	24.39	35.44	13.56	38.40	221.87
19.74	19.62	38.88	41.40	28.62	39.32	12.24	37.08	236.90
18.36	18.24	37.32	39.30	24.84	33.44	11.88	38.76	222.14
17.58	18.66	34.20	39.20	22.50	34.16	10.88	40.68	217.86

Merit roll of the midshipmen of the present first class (class of 1930), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission		Sea service in practice ships	
				Years	Months	Months	Days
195	Edgerton, Everett William.....	South Carolina.....	Aug. 30, 1926	18	1	8	9
398	Edwards, John Ellis.....	North Carolina.....	June 21, 1926	17	0	8	9
286	Ellis, William Edward.....	do.....	do.....	17	7	8	9
72	Engleman, Christian Levin.....	Washington.....	June 23, 1926	20	3	8	9
69	Englund, Harry Wallace.....	Wisconsin.....	June 22, 1926	18	6	8	9
*15	Ennis, William Clare.....	Michigan.....	June 15, 1926	20	0	8	9
91	Ensey, Lot.....	Florida.....	do.....	17	7	8	9
68	Epperly, William Francis.....	Virginia.....	June 25, 1926	19	1	8	9
121	Esslinger, Robert John.....	Michigan.....	June 28, 1926	18	3	8	9
83	Estabrook, William Sears, jr.....	New York.....	June 30, 1926	18	2	8	9
*4	Evans, Philip Cabell.....	Montana.....	June 28, 1926	16	5	8	9
319	Fairechild, Milton Duncan.....	Kentucky.....	June 19, 1926	19	6	8	9
344	Farmer, William Howard.....	Illinois.....	June 16, 1925	18	9	11	3
63	Farnham, Duane Wesley.....	Colorado.....	June 23, 1926	17	5	8	9
358	Felock, Harold King.....	Indiana.....	July 16, 1926	19	11	8	9
388	Flynn, John Francis.....	Massachusetts.....	June 15, 1926	19	6	8	9
396	Foott, George Wade, jr.....	Oregon.....	June 18, 1926	19	2	5	15
82	Forster, James Franklin.....	Tennessee.....	June 28, 1926	18	1	8	9
28	Foster, Robert Boyd.....	Maryland.....	do.....	17	11	8	9
39	Foster, Walter Manly.....	Alabama.....	June 15, 1925	19	11	11	3
394½	Freeberg, Sidney Arthur.....	Minnesota.....	Oct. 4, 1926	19	11	8	12
239	Fromhold, Walfried Halton.....	Missouri.....	June 18, 1926	18	10	7	10
377	Fry, Ernest Walter, jr.....	Minnesota.....	July 6, 1926	19	9	8	9
157	Fuetsch, Bernhart Alois.....	Nevada.....	Aug. 9, 1926	17	6	8	9
197	Gagnon, Lewis Theodore.....	Massachusetts.....	June 30, 1926	20	2	8	9
226	Garcia, George Edward.....	California.....	June 14, 1926	19	5	8	9
100	Gaulin, Victor Salomon.....	Massachusetts.....	June 18, 1926	19	6	7	10
411	Geary, Jerome Pendleton.....	At large (Pres.).....	June 16, 1925	18	4	11	3
23	Gentner, William Ellis, jr.....	California.....	June 14, 1926	18	11	8	9
114	Gentry, Kenneth McCloud.....	Missouri.....	June 29, 1926	18	8	8	9
350	Germany, Robert William, jr.....	Louisiana.....	June 22, 1926	16	7	8	9
397	Gilliam, Charles Robert.....	Texas.....	do.....	19	9	8	9
*16	Gladney, Donald Wesley, jr.....	Arkansas.....	June 14, 1926	19	10	8	9
101	Gluntz, Marvin Henry.....	Ohio.....	do.....	19	11	8	9
151	Gragg, John Blair.....	Michigan.....	June 23, 1926	18	9	8	9
36	Grannis, Russell Lynn.....	Iowa.....	June 17, 1926	19	3	8	9
164	Grant, James Donald Livingston.....	New York.....	June 24, 1926	17	8	8	9
293½	Grantham, Elonzo Bowden, jr.....	North Carolina.....	June 14, 1926	19	5	8	9
136	Greene, Wallace Martin.....	Vermont.....	June 21, 1926	18	6	8	9
336	Gross, Royce Lawrence.....	New York.....	do.....	19	9	8	9
134	Grove, Alfred Edgar.....	Missouri.....	June 14, 1926	18	1	8	9
147	Gubbins, William Wheeler.....	Illinois.....	June 16, 1926	20	2	8	9
337	Hahn, Elvin.....	New Jersey.....	do.....	18	10	8	9
361	Haile, John Robinson.....	Texas.....	June 15, 1925	19	2	8	9
266	Haines, Nathan Starr.....	Illinois.....	July 14, 1926	17	11	8	9
58	Haley, Thomas Bradley.....	Tennessee.....	June 21, 1926	19	0	5	18
253	Hall, Clifton Greenleaf.....	New Hampshire.....	July 27, 1926	17	7	8	9
215	Halstead, Mervin.....	Ohio.....	July 7, 1926	18	1	8	9
191	Hanlin, Paul Wilkinson.....	California.....	June 15, 1926	18	11	8	9
113	Hansen, Henry Otto.....	Iowa.....	July 15, 1926	18	11	8	9
373	Hanson, Burton S, jr.....	Michigan.....	June 18, 1926	19	1	8	9
294	Harmon, William Lockhart.....	do.....	June 16, 1926	18	9	8	9
350	Harrell, Ned.....	Oregon.....	June 22, 1926	17	7	7	23
168	Harris, David Alonzo.....	Georgia.....	June 15, 1926	17	11	8	9
107	Hart, Charles David.....	Louisiana.....	Aug. 13, 1926	17	7	8	9

third year of their academic course, 416 members, June, 1929—Continued

Seaman- ship and flight tactics	Ordnance and gun- nery	Navigation	Engineer- ing and aero- nautics	Mathe- matics	Electrical engineer- ing and physics	Lan- guages	Aptitude for service	Aggregate third year
Maximum								
24	24	48	56	36	48	16	48	300
17.34	18.54	39.18	39.04	23.94	37.44	11.32	40.92	227.72
15.54	15.42	32.34	36.30	25.38	31.52	10.84	38.40	205.74
17.28	18.18	34.62	40.34	24.57	32.68	11.20	41.28	220.15
19.26	18.18	38.82	43.36	31.05	41.64	10.64	38.76	241.71
18.90	19.50	39.54	42.42	28.44	38.40	13.88	41.04	242.12
19.98	21.06	42.18	46.88	30.60	41.20	13.08	42.00	256.98
19.74	19.74	37.68	42.26	27.09	37.20	12.40	43.32	239.43
19.62	19.50	42.48	41.52	28.17	37.64	13.88	39.48	242.29
18.54	19.44	35.70	43.20	26.91	39.60	10.96	40.08	234.43
20.16	19.08	37.68	41.82	30.06	38.56	12.64	40.80	240.80
21.54	20.40	40.92	45.68	33.12	43.72	15.44	40.92	261.74
17.04	15.96	33.90	36.56	27.00	34.12	11.44	40.80	216.82
16.56	16.26	35.16	37.56	26.19	32.64	10.96	39.00	214.33
19.08	19.02	40.98	41.12	29.79	39.64	13.00	40.44	243.07
16.62	17.28	33.78	37.98	25.47	34.00	10.92	36.60	212.65
16.80	16.74	31.98	36.32	23.49	31.72	12.36	39.48	208.89
16.62	16.20	34.86	35.64	24.39	32.40	10.84	35.88	206.83
19.68	20.10	38.04	42.02	27.72	39.36	11.44	42.48	240.84
20.16	19.38	40.98	44.08	32.58	41.00	12.60	41.40	252.18
20.04	19.14	41.76	43.80	31.50	41.76	10.96	40.08	249.04
16.32	16.92	32.16	39.48	23.13	32.04	10.48	36.48	207.01
18.42	19.80	34.74	38.08	24.93	32.68	11.48	42.96	223.09
16.20	17.16	31.32	37.92	22.68	31.52	12.04	41.64	210.48
18.12	20.40	38.46	42.70	25.02	37.20	11.96	37.44	231.30
18.00	17.58	38.82	37.82	30.51	33.40	11.52	39.96	227.61
18.84	17.28	35.58	39.30	24.66	36.96	12.60	40.44	225.66
20.04	18.60	37.98	40.30	26.91	37.96	14.80	40.80	237.39
16.68	15.24	30.18	35.24	22.86	30.40	12.24	37.56	200.40
19.80	20.04	40.74	44.94	31.41	40.64	12.64	44.40	254.61
19.98	19.68	37.92	40.82	25.83	36.40	13.00	42.00	235.63
16.38	17.34	34.68	38.10	26.91	31.88	11.60	37.08	213.97
17.04	15.90	34.80	36.76	22.77	30.80	10.56	37.32	205.95
19.32	20.34	41.40	45.58	31.95	42.00	13.68	42.48	256.75
19.14	19.20	37.08	40.90	28.26	37.24	13.76	41.76	237.34
17.94	18.54	37.74	41.32	28.80	37.40	11.48	38.64	231.86
19.26	20.04	39.60	45.84	33.21	39.76	12.80	40.20	250.71
18.30	18.90	36.90	41.18	23.94	37.24	13.08	41.28	230.82
17.28	18.48	33.42	37.98	26.64	34.88	12.16	38.40	219.24
18.30	19.92	36.96	41.04	27.72	36.08	13.00	40.08	233.10
18.36	17.76	34.44	36.20	24.57	33.20	12.76	38.16	215.45
18.12	19.26	37.50	41.76	27.54	38.60	11.76	38.88	233.42
17.46	19.32	38.16	41.96	27.63	33.36	12.56	41.76	232.21
16.56	16.44	35.64	36.74	24.75	33.80	12.60	38.76	215.29
17.16	17.76	32.22	38.06	22.77	31.08	11.48	41.76	212.29
18.48	16.86	36.24	38.32	25.65	34.60	14.48	36.96	221.59
18.54	20.10	37.74	44.50	28.89	39.28	11.60	43.08	243.73
19.02	17.16	35.04	37.54	25.20	33.44	14.72	40.32	222.44
17.28	18.00	34.50	41.92	27.18	35.52	12.92	39.24	226.56
19.08	19.68	33.36	42.04	26.73	36.16	12.16	38.76	227.97
17.76	20.40	39.60	44.10	25.74	38.48	11.96	38.28	236.32
17.46	19.20	31.38	37.88	22.68	30.92	11.36	40.08	210.96
17.34	17.58	35.46	39.88	23.40	33.24	11.48	40.44	218.82
16.20	16.68	32.94	38.14	25.65	35.00	11.66	37.80	213.97
18.60	19.26	36.00	42.90	25.29	37.84	11.24	39.36	230.49
18.18	20.04	37.20	42.98	28.35	40.44	12.48	37.44	237.11

Merit roll of the midshipmen of the present first class (class of 1930), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission		Sea service in practice ships	
				Years	Months	Months	Days
r214	Hartman, Joseph Anthony	Colorado	June 25, 1926	19	9	5	15
32	Haven, Robert Clarence	North Dakota	Aug. 23, 1926	20	4	5	10
254	Hawkins, David Delos	Washington	June 18, 1926	19	3	8	9
244	Hayes, Charles Harold	New Mexico	June 16, 1926	19	9	8	9
364	Haynsworth, Hugh Charles, jr.	South Carolina	do	16	4	8	9
51	Hayward, John Tucker	New York	July 13, 1926	17	8	8	9
*10	Hean, James Halleck	Louisiana	June 18, 1926	18	1	8	9
187	Heap, George Lionel	Pennsylvania	June 15, 1926	18	10	8	9
406	Heerbrandt, Paul Frederick	Ohio	June 21, 1926	19	4	8	9
*12	Heiser, Harold Marvin	Wyoming	June 22, 1926	18	1	8	9
143	Heming, Harold Millar	New York	June 21, 1926	19	6	8	9
384	Henry, Woodville Thompson	Arkansas	June 15, 1926	17	6	8	9
230	Herns, Charles Richard	Ohio	Aug. 9, 1926	18	11	8	9
75	Herdon, Glen Galloway	Colorado	June 15, 1926	19	8	8	9
246	Hewitt, Gerald Sellen	New York	June 24, 1926	17	5	8	9
60	Heyward, Alexander Salley, jr.	South Carolina	June 15, 1926	18	3	8	9
53	Highley, Frank Edward, jr.	Pennsylvania	June 21, 1926	18	10	8	9
255	Hill, Robert Edward	Arkansas	do	18	9	8	9
22	Hilles, Frederick Vantyne Holbrook	Oregon	July 6, 1926	18	3	8	9
122	Hilton, Cyrus Grant	Ohio	June 17, 1926	19	4	8	9
29	Hindman, Joseph Aloysius Eslen	Pennsylvania	June 24, 1926	17	5	8	9
378	Hindrelet, Albert Francis	At large (Pres.)	June 16, 1926	19	10	8	9
*2	Hines, Wellington T.	Kentucky	June 28, 1926	18	9	8	9
133	Holley, George Michael, jr.	California	June 15, 1926	17	10	8	9
73	Holmes, Ephraim Paul	New York	June 21, 1926	18	1	8	9
281	Holt, Herman William	Maine	do	20	0	8	9
*11	Horn, Peter Harry	Pennsylvania	do	17	8	8	9
245	House, Herschel Austin	Indiana	June 14, 1926	19	0	8	9
26	Howard, James Hampden	South Carolina	June 21, 1926	17	8	8	9
366	Howell, John George	Pennsylvania	do	19	10	8	9
407	Howerton, Charles Cabaness	Texas	Aug. 30, 1926	19	2	2	24
206	Hubbard, Horace Stone	Illinois	June 16, 1926	18	4	8	9
38	Hughes, Claud Wilbourne	Arkansas	June 14, 1926	20	0	6	16
*13	Hughes, Thomas Brandenburgh	Kansas	June 30, 1926	19	8	7	11
205	Hulme, John	Maryland	June 18, 1926	19	7	8	9
t296	Hummer, Harry Cessna	Pennsylvania	June 30, 1926	16	5	7	8
288	Hunt, Richard Coulter Drum, jr.	do	June 17, 1925	17	11	10	18
300	Hutchins, Thomas Boyd, 3d	California	June 15, 1926	19	10	8	9
*1	Jackson, Andrew McBurney, jr.	Louisiana	June 14, 1926	19	3	7	13
295	Jenkins, Walter Terry	Ohio	June 28, 1926	19	3	8	9
364	Jennings, Robert Fulton	New Jersey	July 1, 1926	17	7	8	9
401	Jennings, Zack David	Mississippi	June 27, 1925	18	10	11	3
47	Johnson, Frank Leshner	New Jersey	Sept. 23, 1926	19	2	8	9
104	Johnson, Harold Frank	New York	June 18, 1926	19	4	8	9
34	Johnson, Raymond Wilbur	do	June 23, 1926	19	2	8	9
207	Jones, Lafayette Jackson	Tennessee	do	17	8	8	9
390	Kaiser, William Charles	Rhode Island	June 15, 1926	18	9	8	9
257	Kelly, Edwin Green	Texas	June 21, 1926	18	4	8	9
233	Kiefer, Durand	Michigan	June 28, 1926	18	3	8	9
84	Kinert, John Oscar	Washington	June 22, 1926	18	11	8	9
77	Kirvan, William Henderson	Maine	July 24, 1926	18	7	8	9
119	Knoll, Denys William	Pennsylvania	June 21, 1926	19	3	8	9
299	Koepke, Lyle Lawrence	Michigan	do	19	11	5	18
167	Kohlhas, Albert Posey, jr.	Pennsylvania	June 22, 1926	18	7	6	26
309	Konigsberg, Albert	New York	June 21, 1926	16	11	8	9

third year of their academic course, 416 members, June, 1929—Continued

Seaman- ship and flight tactics	Ordnance and gun- nery	Navigation	Engineer- ing and aero- nautics	Mathe- matics	Electrical engineer- ing and physics	Lan- guages	Aptitude for service	Aggregate third year
Maximum								
24	24	48	56	36	48	16	48	300
17.52	18.24	36.36	38.96	25.02	36.72	12.48	41.28	226.58
20.76	19.44	42.06	45.22	29.43	43.16	11.92	39.48	251.47
17.76	19.02	36.66	38.10	26.73	34.84	11.36	37.92	222.39
17.34	19.14	34.92	41.26	22.95	34.12	14.20	38.76	222.69
17.34	17.46	34.20	38.92	23.94	32.72	11.12	36.48	212.18
19.98	18.84	39.36	43.38	28.71	39.00	11.96	44.16	245.39
20.70	20.04	42.18	45.54	32.94	42.44	12.36	43.44	259.64
17.10	19.14	34.74	41.32	26.01	38.40	10.64	40.80	228.15
15.66	16.56	31.38	36.34	24.30	31.12	11.64	36.36	203.36
21.24	20.28	42.30	47.16	30.87	39.84	14.00	43.32	259.01
19.02	19.74	38.10	42.14	27.63	37.20	10.96	37.80	232.59
17.22	16.74	31.92	37.24	24.30	32.72	11.00	38.52	209.66
18.96	19.08	35.22	41.28	25.02	34.60	12.24	38.16	224.56
18.06	20.22	36.54	43.82	29.70	38.40	11.88	42.96	241.58
17.10	16.32	36.12	37.50	28.62	36.24	13.20	37.56	222.66
19.92	20.40	39.24	42.32	27.45	37.64	12.96	43.56	243.49
20.88	20.64	38.04	43.46	26.01	38.24	13.36	44.52	245.15
18.12	17.40	35.58	38.18	26.46	36.72	10.84	39.00	222.30
19.74	21.18	42.18	45.12	31.05	41.92	14.08	39.72	254.99
19.62	19.02	36.30	44.56	26.10	37.00	12.68	39.12	234.40
20.52	20.58	43.68	44.84	30.33	40.24	11.84	39.84	251.87
17.58	16.92	30.60	36.48	23.04	32.84	12.36	40.44	210.26
20.82	20.76	44.34	47.92	34.38	44.88	13.52	43.56	270.18
19.86	19.56	39.48	40.54	24.12	37.52	11.24	41.28	233.60
19.80	20.04	38.52	43.40	26.01	38.80	14.40	40.68	241.65
18.42	19.20	33.06	39.84	25.02	33.60	11.64	39.60	220.38
21.00	20.94	42.78	45.36	33.03	41.92	13.04	41.16	259.23
18.54	18.36	34.14	39.82	25.38	33.40	12.36	40.68	222.68
20.34	19.92	42.00	44.26	29.97	42.12	12.48	42.24	253.33
17.82	17.28	32.46	37.26	22.77	31.52	11.32	41.64	212.07
16.14	16.92	33.00	36.62	24.75	31.40	10.20	33.72	202.75
17.70	17.28	37.62	38.10	29.52	36.08	12.12	38.64	227.06
19.38	19.68	40.26	45.74	28.71	41.16	11.04	43.68	249.65
20.28	20.16	43.32	45.74	30.87	44.00	11.96	42.36	258.69
18.30	18.48	35.34	39.94	24.30	35.16	12.76	42.84	227.12
18.78	16.68	37.98	37.24	25.11	35.64	12.84	34.44	218.71
18.42	17.76	33.78	38.18	23.94	33.52	13.52	40.80	219.92
16.98	18.06	34.26	39.72	24.48	34.68	11.20	38.76	218.14
21.00	21.78	42.60	51.98	32.13	45.48	11.96	44.64	271.57
16.62	17.10	34.74	39.26	25.65	34.96	11.52	38.88	218.73
18.78	18.06	32.28	36.76	25.38	31.44	10.60	38.88	212.18
15.60	15.72	31.56	35.98	22.95	30.68	13.80	38.64	204.93
20.22	19.68	38.58	43.68	29.70	39.04	13.80	42.00	246.70
19.62	18.12	36.48	40.92	27.81	39.84	12.16	42.24	237.19
19.56	19.44	40.20	43.16	29.88	39.76	15.04	44.16	251.20
16.92	16.80	39.66	38.00	27.36	35.92	13.68	38.64	226.98
16.98	18.06	31.20	38.32	22.95	32.24	10.52	37.56	207.83
17.16	18.00	36.36	39.64	24.39	36.48	10.40	39.84	222.27
18.42	19.08	35.70	40.38	27.18	34.84	13.28	35.04	223.92
19.68	19.92	39.48	44.10	29.07	40.68	12.44	35.40	240.77
19.50	19.92	36.78	42.00	29.16	36.68	14.64	42.60	241.28
17.82	19.26	38.88	40.72	28.08	36.96	12.28	40.68	234.68
16.98	16.98	35.46	37.36	26.73	34.88	11.00	38.76	218.15
18.30	18.12	36.42	39.82	27.36	37.20	12.00	41.28	230.50
19.02	18.72	33.06	37.80	25.47	32.52	12.76	38.28	217.63

Merit roll of the midshipmen of the present first class (class of 1930), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission		Sea service in practice ships	
				Years	Months	Months	Days
201	Kosco, George Francis	Pennsylvania	June 21, 1926	18	3	8	9
93	Krick, Donald Francis	Idaho	Aug. 2, 1926	17	6	8	9
153	Kyes, James Elsworth	Washington	June 23, 1926	20	2	8	9
108	Lackner, Peter Robert	Montana	June 14, 1926	17	0	8	9
165	Laing, Frederick Williams	New York	do	19	6	8	9
85	Lampe, Alfred Ernest	New Jersey	Aug. 31, 1926	19	2	8	9
175	Lang, James Graeme	Minnesota	June 17, 1926	19	8	8	9
31	Larson, Herman Northcott	Illinois	June 22, 1926	18	9	8	9
135	Lawver, Rowland Clifford	do	June 18, 1926	19	9	8	9
102	Lee, John Elwood	Delaware	June 29, 1926	17	9	8	9
328	Legare, Herman Keith	New York	June 21, 1926	18	11	8	9
144	Lewis, John Miles	California	June 14, 1926	17	0	8	9
402	Lidstone, Nicholas Adair	Washington	July 1, 1925	19	8	8	9
176	Lincoln, Horatio Alonzo	North Dakota	June 22, 1926	17	4	8	9
161	Little, Edward Neal	Illinois	June 18, 1926	18	2	8	9
340	Lloyd, Russell	New Jersey	June 27, 1925	19	4	6	27
308	Long, Veldon Oscar	Colorado	June 28, 1926	19	1	8	9
139	Lord, Charles Williams	Pennsylvania	June 24, 1926	16	11	8	9
211	Lowrance, Vernon Long	North Carolina	June 21, 1926	17	2	8	9
242	Lowrey, William Watson	Texas	do	19	7	8	9
323	Lucas, Frederic Colby jr.	Illinois	Aug. 11, 1926	17	5	8	9
64	Lucker, Nicholas, jr.	Connecticut	July 9, 1926	17	1	8	9
173	Luongo, Frank Paul, jr.	New York	June 28, 1926	18	11	8	9
224	Lynch, Oliver De Mouy Thomas	Alabama	July 27, 1926	17	8	8	9
374	Lynch, Robert Francis	New York	June 28, 1926	18	8	8	9
141	MacGregor, Edgar John, 3d.	do	June 23, 1926	19	11	7	1
86	MacKay, Hugh Trent	Kentucky	Aug. 30, 1926	18	7	8	9
169	Malpass, Ray Edward	Connecticut	June 15, 1926	19	11	8	9
266	Marable, Herbert Hughes	Virginia	June 21, 1926	19	1	8	9
293	Marix, George Elliott	At large (Pres.)	June 15, 1926	16	11	8	9
249	Marshall, Edmund Sylvester Lee	California	June 25, 1926	18	4	8	9
118	Marshall, Thomas Worth, jr.	Ohio	Aug. 24, 1926	19	8	8	9
24	Martell, Charles Bowling	District of Columbia	June 17, 1926	16	8	8	9
81	Massey, Lance Edward	New York	June 23, 1926	16	9	8	9
30	Masterson, Kleber Sanlin	New Mexico	July 1, 1926	18	0	8	9
380	Mathews, Laurance Oldham, jr.	Georgia	July 27, 1926	18	1	8	9
283	Mauro, Charles Thomas, jr.	Illinois	June 22, 1926	19	7	6	26
231	May, Leo George	New York	July 9, 1926	17	0	8	9
232	Maynard, Robert Horace	Delaware	June 28, 1926	17	7	8	9
265	Mayo, Raymond Leon	Texas	June 18, 1926	19	7	8	9
125	McClain, Warren Howard	Georgia	June 23, 1926	17	3	8	9
150	McCombs, Charles Edward	Ohio	do	17	4	8	9
196	McCready, George Thomas, jr.	New York	July 12, 1926	18	7	8	9
228	McCullough, Montgomery Lientz, jr.	Missouri	June 16, 1926	18	7	8	9
312	McGlathery, Richard Davis	Pennsylvania	June 24, 1926	19	7	8	9
186	McGregor, Louis Darby, jr.	Georgia	June 16, 1926	19	4	8	9
62	McKean, William Baggarley	Utah	June 28, 1926	17	8	8	9
95	McKnight, John Rowland, jr.	Oklahoma	June 15, 1926	18	1	8	9
329	McLeod, Bowen Falls	Mississippi	June 16, 1926	18	5	8	9
272	McMillian, Ira Ellis	Texas	June 21, 1926	17	11	8	9
280	McPeake, Richard Hayes	Massachusetts	June 15, 1926	17	3	8	9
409	McPherson, Kenneth Seton	Washington	June 21, 1926	19	5	8	9
128	Miller, Albert Stanley	New York	June 28, 1926	17	3	8	9
96	Miller, Frank Blake	Virginia	June 21, 1926	19	11	8	9

third year of their academic course, 416 members, June, 1929—Continued

Seaman- ship and flight tactics	Ordnance and gun- nery	Navigation	Engineer- ing and aero- nautics	Mathe- matics	Electrical engineer- ing and physics	Lan- guages	Aptitude for service	Aggregate third year
Maximum								
24	24	48	56	36	48	16	48	300
17.58	17.34	35.64	40.12	27.99	36.08	12.40	40.20	227.35
19.80	20.52	36.96	41.66	27.36	38.64	12.64	41.28	238.86
18.06	19.50	36.36	41.88	25.20	38.64	11.36	40.68	231.68
18.66	19.80	38.34	42.84	26.82	37.96	12.44	40.20	237.06
17.82	19.44	38.04	40.88	27.54	36.20	12.24	38.52	230.68
17.70	19.74	39.18	40.88	27.99	38.84	13.60	42.48	240.41
18.78	17.76	37.68	41.16	26.19	37.04	11.40	39.48	229.49
19.44	20.58	41.70	46.58	31.23	40.72	11.28	40.08	251.61
18.36	19.68	39.00	41.14	25.65	39.28	10.76	39.48	233.35
19.38	19.20	38.94	40.50	28.44	37.12	12.20	41.52	237.30
16.92	16.44	35.94	38.38	24.21	35.72	10.52	37.92	216.05
19.32	19.14	39.18	41.58	25.47	35.24	13.72	38.88	232.53
16.32	16.32	31.56	36.98	22.50	30.60	10.84	39.72	204.84
17.70	17.34	35.16	39.54	28.08	41.16	11.24	39.12	229.34
19.44	17.04	37.98	38.00	28.26	36.20	11.04	41.88	231.04
17.58	16.68	32.28	39.20	24.66	31.64	10.64	42.12	214.80
16.60	17.40	34.32	38.06	25.38	32.32	10.84	42.96	217.73
18.18	19.56	38.10	41.76	26.73	36.52	12.40	39.48	232.78
18.12	18.24	36.36	39.06	26.37	34.48	11.60	42.60	226.83
18.48	18.30	35.46	39.62	25.83	37.52	11.16	36.48	222.85
17.10	16.98	34.08	39.56	23.67	33.20	12.52	39.48	216.59
19.50	19.98	39.48	44.48	28.08	38.56	12.24	40.56	242.88
17.94	18.00	38.10	39.64	27.54	37.28	13.52	38.04	230.06
19.20	18.78	34.02	42.16	23.04	35.44	11.68	41.52	225.84
18.12	16.20	33.12	37.26	24.84	32.20	12.96	36.24	210.94
18.30	19.08	35.82	41.26	27.00	35.76	13.44	42.00	252.66
18.84	19.44	37.14	43.06	28.17	38.88	12.64	41.76	239.93
18.90	19.62	36.18	40.58	26.37	34.28	11.88	42.60	230.41
16.92	17.16	34.26	41.80	26.73	34.36	10.52	39.84	221.59
18.06	17.52	35.76	39.06	23.94	33.08	11.16	40.80	219.58
19.50	19.50	37.32	39.76	23.58	34.12	14.32	34.44	222.54
18.90	19.56	39.00	42.88	25.92	36.36	11.52	40.56	234.70
19.68	19.86	42.60	44.84	31.32	42.72	13.56	39.36	253.94
19.86	19.98	40.02	45.24	27.54	38.00	11.04	39.24	240.92
19.92	20.76	38.52	45.44	32.13	40.70	12.20	42.00	251.67
17.46	16.98	31.56	37.82	22.95	30.76	12.28	40.20	210.01
17.64	16.80	36.12	37.46	25.38	33.44	12.48	41.04	220.36
19.14	18.48	36.06	38.50	27.09	36.72	13.44	34.80	224.23
18.59	20.22	33.30	40.30	24.03	35.20	12.28	40.08	224.00
17.34	18.00	37.02	39.26	24.75	34.92	10.84	39.60	221.73
18.72	19.32	39.12	43.28	26.82	35.64	11.48	39.60	233.98
18.84	18.84	39.42	40.72	25.29	36.44	11.08	41.28	231.91
17.16	19.02	36.54	40.40	25.56	35.64	12.08	41.28	227.68
17.40	17.76	36.30	40.70	25.38	34.68	11.76	40.68	224.66
18.06	17.28	35.28	37.04	23.58	34.72	11.72	39.72	217.40
17.34	17.64	39.66	38.24	27.90	36.24	11.00	40.20	228.22
19.56	17.76	42.18	40.84	30.33	39.32	12.44	40.68	243.11
19.32	20.64	39.90	45.08	26.91	38.04	10.36	38.16	238.41
16.68	18.06	34.80	38.14	23.31	34.00	11.96	39.00	215.95
16.14	16.98	35.88	38.84	26.19	33.88	14.00	39.48	221.39
19.20	17.40	34.08	38.18	25.38	34.40	11.44	40.32	220.40
16.68	16.08	31.86	36.08	22.95	31.04	10.40	36.60	201.69
17.64	19.32	38.10	40.36	26.82	37.80	12.72	41.04	233.80
19.68	19.86	38.28	41.06	27.99	37.40	11.84	42.24	238.35

Merit roll of the midshipmen of the present first class (class of 1930), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission		Sea service in practice ships	
				Years	Months	Months	Days
211	Miller, Theodore Taft.....	Pennsylvania.....	June 21, 1926	17	7	8	9
g123	Mitchell, Alva Edwin.....	Texas.....	June 23, 1926	18	3	5	15
305	Moffett, William Adger, jr.....	At large (Pres.).....	June 15, 1926	16	3	8	9
322	Montgomery, Edward Alexander.....	Georgia.....	do.....	17	10	8	9
57	Moore, Robert Lee, jr.....	Maryland.....	do.....	18	3	8	9
*17	Moore, William Brigham.....	Utah.....	June 28, 1926	16	10	8	9
200	Moreno, John Aristides.....	At large (Pres.).....	June 15, 1926	17	8	8	9
48	Moret, Paul.....	Michigan.....	June 23, 1926	19	4	5	18
106	Morton, Dudley Walker.....	Florida.....	do.....	18	11	5	7
292	Mothersill, Philip Wilder, jr.....	Colorado.....	Sept. 13, 1926	19	3	8	9
333	Mott, Elias Bertram, 2d.....	New Jersey.....	June 16, 1926	17	8	8	9
*3	Mulit, Lloyd Henry.....	California.....	June 14, 1926	19	3	8	9
148	Neal, Alvin Willard.....	Arkansas.....	June 18, 1926	18	8	8	9
67	Nelson, William Thackeray.....	Massachusetts.....	June 28, 1926	17	8	6	27
405	Newell, Byron Bruce.....	Georgia.....	June 29, 1926	16	7	8	9
392	Newman, Roscoe Lee.....	do.....	Aug. 14, 1926	20	2	8	9
355	Newsome, James Hillman.....	do.....	June 18, 1926	19	11	8	9
140	Newton, Roy Arthur.....	Texas.....	July 15, 1926	19	0	8	9
325	Nix, Joshua James.....	Tennessee.....	July 2, 1926	18	1	8	9
49	Nixon, Richard Mueller.....	Ohio.....	June 22, 1926	16	5	8	9
370	Nutting, Kelvin Lightfoot.....	District of Columbia.....	July 15, 1926	19	0	8	9
203	O'Beirne, Emmet.....	Illinois.....	June 22, 1926	18	3	8	9
40	O'Handley, Joseph Allen Edward.....	New York.....	June 23, 1926	20	2	8	9
375	Olney, Davis Wing.....	Michigan.....	July 6, 1926	18	11	8	9
180	Ostrom, Charles Howard.....	At large (Pres.).....	June 15, 1926	17	7	8	9
380	Over, George Russell.....	Ohio.....	do.....	20	0	8	9
332	Owen, Arthur Edwin.....	Maine.....	June 28, 1926	18	8	8	9
142	Palmer, George Goldston.....	South Carolina.....	do.....	18	5	8	9
301	Patten, Robert Melville.....	Pennsylvania.....	June 22, 1926	19	7	8	9
43	Perkins, Robert Edward.....	Maryland.....	do.....	19	11	8	9
80	Peterson, Mell Andrew.....	Iowa.....	June 16, 1926	17	9	5	7
271	Phillips, Walter Blackburn.....	Virginia.....	July 2, 1926	19	5	8	9
42	Piecentkowski, Herman Arnold.....	Rhode Island.....	June 15, 1926	19	1	5	16
238	Post, William Schuyler, jr.....	California.....	Aug. 14, 1926	18	0	8	9
307	Price, Edgar Oliver.....	Maryland.....	June 14, 1926	18	1	8	9
250	Price, Thomas Davis.....	Minnesota.....	June 15, 1925	18	4	11	3
204	Prien, Walter Ferdinand.....	Wisconsin.....	June 21, 1926	19	9	8	9
345	Pusel, Nicholas Jacob.....	North Dakota.....	do.....	19	5	7	28
66	Quiggle, Lynne Cline.....	Nebraska.....	do.....	20	1	8	9
71	Randall, Samuel Mentz.....	New Jersey.....	July 6, 1926	16	10	8	9
385	Randolph, Samuel A.....	Utah.....	June 24, 1926	19	7	8	9
372	Reeder, Frederick Martin.....	At large (Pres.).....	June 15, 1926	19	7	8	9
278	Reinecke, Frank Mills.....	Kentucky.....	June 16, 1926	19	8	7	1
199	Reinhard, Walter Albert.....	Indiana.....	July 1, 1926	18	4	8	9
97	Renfro, Edward Clark.....	Colorado.....	June 16, 1926	19	3	5	18
162	Rigsbee, Everett Olin, jr.....	Texas.....	July 6, 1926	19	0	7	1
163	Riva, Victor Emmanuel.....	Pennsylvania.....	June 22, 1926	18	11	8	9
376	Robbins, Josephus Amberg.....	Kentucky.....	June 16, 1926	17	8	8	9
343	Robinson, Frank Laedlein.....	At large (Pres.).....	June 15, 1926	16	5	8	9
345	Robinson, Oakleigh Williams.....	New Hampshire.....	June 16, 1926	18	1	8	9
223	Roby, Allan Barkhurst.....	Kentucky.....	June 30, 1926	18	7	8	9
*19	Rodgers, James William.....	Colorado.....	June 16, 1926	18	8	8	9
174	Rohr, Charles Herman Adolph.....	New York.....	June 21, 1926	18	11	7	1
304	Rosasco, Robert Adrian.....	Florida.....	June 29, 1926	17	10	8	9

third year of their academic course, 416 members, June, 1929—Continued

Seaman- ship and fight tactics	Ordnance and gun- nery	Navigation	Engineer- ing and aero- nautics	Mathe- matics	Electrical engineer- ing and physics	Lan- guages	Aptitude for service	Aggregate third year
Maximum								
24	24	48	56	36	48	16	48	300
17.94	18.18	36.96	40.00	25.11	34.04	13.08	41.52	226.83
18.66	19.44	35.52	41.64	26.01	36.28	13.48	43.32	234.35
18.18	17.10	32.28	38.60	23.76	33.04	10.76	44.16	217.88
18.60	17.46	34.56	36.74	24.57	31.64	12.84	40.20	216.61
18.72	19.14	37.44	43.28	30.60	39.72	12.12	42.72	243.74
19.44	20.10	42.24	45.60	32.13	42.44	13.60	40.68	256.23
19.74	16.98	37.38	37.94	25.56	37.64	13.28	38.88	227.40
19.98	19.98	37.92	45.60	26.73	38.60	13.48	44.28	246.57
18.54	18.72	39.42	41.92	28.17	38.12	12.16	40.08	237.13
17.94	16.74	35.16	36.24	26.46	32.64	13.00	41.28	219.46
16.74	16.14	34.08	39.64	25.74	33.60	11.40	38.16	215.50
20.70	21.12	43.50	47.52	31.68	43.44	14.84	42.96	265.76
19.20	20.04	36.42	40.92	28.17	36.28	12.32	38.64	231.99
20.22	18.78	41.70	43.72	27.90	36.80	10.96	42.24	242.32
15.12	15.30	33.96	35.46	23.04	30.84	11.08	38.64	203.44
15.60	17.16	31.62	36.82	25.11	31.00	10.92	39.24	207.47
15.90	16.74	33.60	37.46	24.57	34.56	11.00	39.84	213.67
19.20	19.62	37.62	43.24	24.12	36.04	11.68	41.16	232.68
17.34	19.26	34.86	37.94	23.13	33.52	11.00	39.12	216.17
19.80	18.96	41.10	41.98	30.69	41.92	12.44	39.12	246.01
16.74	18.00	30.96	37.74	24.57	31.56	12.36	39.60	211.53
17.46	18.00	34.38	39.22	27.09	35.76	12.36	42.96	227.23
19.74	18.54	40.56	43.24	31.14	41.64	13.68	40.32	248.86
17.52	15.90	32.64	36.26	25.11	33.68	11.00	38.64	210.75
17.46	17.82	37.20	41.70	28.80	35.36	10.76	39.84	228.94
16.26	16.56	32.04	37.78	23.13	31.92	10.68	41.64	210.01
17.28	18.48	32.64	37.58	24.84	31.92	12.48	40.44	215.66
17.76	19.68	35.34	41.44	26.19	37.68	13.24	41.28	232.61
17.04	19.14	34.20	39.72	24.57	32.56	11.16	39.72	218.11
20.28	20.34	40.98	43.98	30.24	39.04	13.32	39.84	248.02
18.48	18.96	39.84	41.12	28.35	38.04	12.12	44.04	240.95
18.90	18.12	34.32	39.72	23.85	31.24	11.16	44.16	221.47
20.94	20.52	40.98	46.14	25.74	37.60	12.92	43.92	248.76
17.40	15.96	35.88	39.32	27.36	33.32	13.76	40.20	223.20
17.88	18.18	34.56	38.22	23.76	35.32	11.52	38.40	217.84
17.94	17.70	36.90	40.24	24.93	35.60	10.56	38.64	222.51
18.54	18.72	40.44	37.70	25.65	34.12	11.72	40.32	227.21
16.68	18.72	31.98	38.70	22.77	33.28	11.84	40.32	214.29
21.72	19.68	39.54	43.74	25.92	36.16	12.60	43.08	242.44
19.32	19.56	40.02	42.74	28.62	37.80	12.92	41.04	242.02
16.44	17.52	34.56	37.18	23.76	32.40	11.12	36.24	209.22
16.26	17.46	32.64	37.28	24.30	32.28	10.76	40.08	211.06
17.52	18.48	35.70	38.68	24.75	32.44	13.16	39.96	220.69
18.18	17.76	36.84	38.62	26.64	35.96	10.84	42.60	227.44
17.58	19.62	38.10	42.10	28.17	38.24	11.72	42.48	238.01
18.60	18.78	36.78	42.24	25.20	36.00	12.96	40.32	230.88
17.82	18.18	36.42	41.20	27.27	38.36	12.60	39.00	230.85
16.38	17.16	32.10	37.80	23.85	33.16	11.52	38.64	210.61
17.28	17.46	35.52	38.10	24.03	33.76	13.04	35.40	214.59
16.74	17.76	33.30	36.86	24.39	31.84	12.72	40.68	214.29
18.54	19.50	35.22	43.02	23.85	34.84	10.48	40.44	225.89
20.28	20.52	41.52	46.52	30.69	40.28	13.52	42.24	255.57
18.18	18.48	36.48	39.80	27.90	36.48	12.80	39.60	229.72
17.70	18.30	34.26	39.68	23.94	34.32	13.68	36.12	218.00

Merit roll of the midshipmen of the present first class (class of 1930), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission		Sea service in practice ships	
				Years	Months	Months	Days
183	Ross, Russell Roosevelt	California	June 25, 1926	20	3	8	9
369	Ruddy, Joseph Aloysius, jr	New York	July 20, 1926	18	2	8	9
178	Ruff, Lawrence Ernest	do	June 29, 1925	20	0	8	9
155	Russell, Paul Wesley	North Dakota	June 14, 1926	19	1	2	8
222	Rutter, Royal Lawrence	Idaho	do	18	8	8	9
192	Salisbury, Jack Sumner	Washington	June 21, 1926	19	1	8	9
334	Salmon, Ronald Dean	Michigan	June 28, 1926	17	3	8	9
314	Sanchez, Henry Gabriel	New York	do	18	6	5	15
103	Sanders, Eddie Reuel	Illinois	June 24, 1926	18	9	7	28
313	Sanders, William Henry	California	Aug. 14, 1926	19	2	8	9
132	Sands, Eugene Thomas	Alabama	June 18, 1926	19	4	8	9
105	Sass, Donald Jacob	Maryland	June 16, 1926	19	4	8	9
117	Schulte, Joseph Anthony	Michigan	June 14, 1926	18	2	8	9
145	Scul, Gifford	New Jersey	Sept. 23, 1926	19	1	8	9
166	Seay, George Cameron	Virginia	Aug. 12, 1926	18	4	8	9
221	Shaffer, John Jackson, 3d	Louisiana	June 28, 1926	17	1	8	9
171	Sharp, Raymond Neil	Tennessee	Aug. 30, 1926	20	5	8	9
318	Sheeley, William Robert	Kentucky	June 22, 1926	19	4	8	9
27	Simons, Manley Hale, 3d	Rhode Island	June 14, 1926	17	11	8	9
277	Sisson, John Edgar	New York	June 21, 1926	19	4	8	9
94	Sloat, Frank Truman	Pennsylvania	do	19	2	8	9
266	Smith, Harry	Illinois	June 18, 1926	17	3	8	9
279	Smith, Julius Lundie, jr	Georgia	June 22, 1926	18	11	8	9
329	Smith, Philip Thomas, jr	Connecticut	June 15, 1926	18	4	8	9
185	Snead, William Overton, jr	Virginia	July 1, 1926	18	8	8	9
393	Snyder, Joseph Cantwell	Pennsylvania	June 18, 1926	19	3	8	9
240	Spence, Hiram Warner	Georgia	do	18	9	8	9
*9	Spofford, Richard Tenney	Massachusetts	June 16, 1926	18	8	8	9
354	Spring, Arthur Finn	New Hampshire	do	17	6	3	25
262	Steiner, William Bassett	Missouri	June 30, 1926	19	1	8	9
131	Stevens, Clyde Benjamin, jr	Colorado	June 28, 1926	17	9	8	9
198	Stevens, James Edward	New Jersey	June 16, 1926	19	6	6	3
359	Stevenson, Harry Clinton	Ohio	June 21, 1926	20	0	6	28
298	Stewart, William Henry	New York	do	19	7	8	9
127	Stich, Francis Stephen	Wisconsin	July 27, 1926	19	2	7	1
78	Stretch, David Albert	New Jersey	July 2, 1926	17	9	8	9
90	Stroh, Robert Joseph	New York	June 14, 1926	18	7	8	9
243	Strohbehn, Walter William	Iowa	June 15, 1926	18	5	8	9
*21	Sutherland, Robert Theodore, jr	Colorado	do	16	7	8	9
363	Sutton, Robert Dixie	New York	June 25, 1926	19	5	8	9
116	Swan, Bryan Fred	Missouri	June 22, 1926	19	1	5	7
179	Tatom, John Fletcher	Florida	July 13, 1926	18	8	8	9
115	Taylor, Robert Hudson	Georgia	June 14, 1926	17	9	8	9
241	Thibault, James Lorenzo	Arkansas	June 18, 1926	19	11	8	9
210	Thomas, William Clyde	Pennsylvania	June 24, 1926	18	9	8	9
225	Thompson, Lloyd Cooper	Mississippi	June 18, 1926	19	1	8	9
216	Thornhill, Thomas James, jr	Texas	June 15, 1925	20	2	4	15
327	Tisdale, William Graham, jr	Michigan	June 28, 1926	17	4	8	9
362	Todd, Donald Whiley	At large (Pres.)	July 31, 1925	18	10	8	9
*18	Trippensee, Bruce Edward Scofield	Ohio	June 14, 1926	18	11	8	9
76	Trower, Robert Smith, 3d	Virginia	June 26, 1926	18	10	8	9
291	Van Metre, Thaddeus Johnson	Nevada	July 7, 1926	19	2	8	9
284	Verhoye, Harry James	New Jersey	July 12, 1926	16	8	8	9
190	Vorhees, Mack Edmund	Ohio	June 21, 1926	20	2	8	9

third year of their academic course, 416 members, June, 1929—Continued

Seaman- ship and flight tactics	Ordnance and gun- nery	Navigation	Engineer- ing and aero- nautics	Mathe- matics	Electrical engineer- ing and physics	Lan- guages	Aptitude for service	Aggregate third year
Maximum								
24	24	48	56	36	48	16	48	300
18.18	17.04	34.86	38.00	39.51	35.52	13.04	41.62	278.67
17.16	16.08	32.82	36.94	23.40	33.04	10.80	41.40	211.64
17.70	18.90	35.52	38.96	25.47	36.40	12.16	44.04	229.15
18.00	19.50	35.58	42.46	25.11	37.32	12.20	41.40	231.57
18.54	18.72	38.16	39.06	25.74	35.04	11.16	39.60	226.02
16.68	17.22	37.86	40.98	26.46	36.64	11.40	49.68	227.92
16.08	18.24	31.80	39.18	26.73	34.20	10.60	38.64	215.47
18.06	17.58	36.12	37.26	25.02	32.64	12.24	38.28	217.20
19.74	19.38	36.00	41.54	26.19	37.20	12.44	44.76	237.25
15.96	16.26	35.76	35.98	26.46	35.32	11.80	39.84	217.38
20.40	19.68	36.00	40.78	26.37	37.28	11.76	41.40	233.67
18.84	19.32	36.30	41.92	28.35	38.24	12.44	41.76	237.17
18.18	18.96	36.06	41.96	29.88	38.16	10.48	41.16	234.84
18.84	19.08	37.26	38.50	29.07	35.40	13.44	40.92	232.51
18.06	18.30	39.96	39.38	29.16	37.72	11.96	36.12	230.66
17.52	19.44	34.32	40.28	25.29	34.32	11.84	43.08	226.09
17.16	18.12	36.30	43.06	25.83	38.60	10.36	40.68	230.11
17.58	18.06	36.12	37.98	24.84	34.44	11.92	36.00	216.94
20.22	20.76	42.24	45.42	30.96	41.04	11.76	39.84	252.24
17.82	17.16	34.92	40.68	25.92	34.64	10.80	38.76	220.70
19.02	18.66	40.50	43.54	28.71	38.16	11.60	38.28	238.47
17.04	16.44	35.58	40.16	26.01	34.20	10.40	41.76	221.59
18.96	17.58	33.48	38.86	23.22	32.96	12.96	42.48	220.50
18.18	18.06	36.72	38.04	24.75	33.56	11.36	35.28	215.95
17.64	19.14	36.30	39.58	26.46	35.48	13.00	40.68	228.28
17.46	16.80	32.34	36.78	24.30	33.84	10.60	35.16	207.28
18.60	17.22	35.70	40.24	24.75	34.16	12.52	39.84	223.03
19.86	20.46	41.58	48.06	32.22	42.12	14.80	41.04	260.14
16.50	16.20	32.22	38.78	23.40	32.76	10.80	43.08	213.74
17.64	17.22	36.96	37.96	25.47	32.80	14.00	39.96	222.01
18.96	18.30	37.68	41.78	27.63	38.36	12.12	38.88	233.71
17.94	18.54	36.90	39.96	27.63	35.60	11.64	39.36	227.57
17.10	16.68	32.52	37.82	24.75	33.48	10.76	39.48	212.59
16.74	17.82	34.74	38.30	24.57	33.44	11.64	41.04	218.29
17.70	19.86	36.90	40.06	26.28	41.68	11.64	39.72	233.84
20.28	19.62	35.52	44.40	25.65	39.00	13.64	43.08	241.19
19.86	19.93	40.02	42.60	28.08	37.08	12.48	39.48	239.58
18.66	17.82	37.08	41.24	22.86	33.60	11.28	40.20	222.74
19.93	19.44	43.26	45.33	31.59	43.64	12.16	39.96	255.41
17.76	18.24	33.78	37.70	22.05	31.12	10.88	40.68	212.21
18.96	18.66	38.28	40.08	27.63	36.32	13.04	42.24	235.21
18.60	19.32	34.98	40.04	25.92	35.92	13.96	40.32	229.06
19.08	18.96	34.86	41.74	27.99	36.16	14.48	42.24	235.51
19.14	18.66	34.32	40.34	25.20	35.96	13.08	36.24	222.94
18.06	18.12	37.80	42.00	26.01	33.40	10.84	35.64	226.87
18.66	18.78	33.48	40.22	26.28	35.08	12.16	41.16	225.82
18.06	18.66	36.48	41.00	24.30	34.68	12.28	41.04	226.50
17.58	17.28	34.32	37.50	24.21	34.16	10.84	40.20	216.09
17.76	18.60	34.62	37.60	22.68	31.32	10.56	39.18	212.26
21.06	20.10	40.56	45.36	31.32	42.32	14.00	41.28	256.00
16.86	17.70	41.52	41.36	31.41	41.24	10.08	41.40	241.57
17.10	17.58	37.56	39.10	23.76	34.72	11.04	38.64	219.80
18.78	18.72	33.30	39.44	24.75	33.84	13.08	38.40	220.31
18.36	18.60	35.22	40.28	25.38	36.48	12.04	41.64	228.00

Merit roll of the midshipmen of the present first class (class of 1930), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission		Sea service in practice ships	
				Years	Months	Months	Days
400	Vosseller, James Oliver	Illinois	Sept. 3, 1926	19	2	8	9
148	Wadsworth, Alexander Scammell Cameron.	At large (Pres.)	June 16, 1926	18	1	8	9
379	Wagner, Edwin Otto	New York	June 18, 1926	20	1	8	9
25	Wagner, Frank Gilbert, jr.	Washington	July 6, 1926	18	0	8	9
258	Wakefield, Ellis Kerr	Pennsylvania	June 21, 1926	19	11	8	9
44	Walter, Wilfred Aves	California	June 14, 1926	18	5	8	9
367	Webb, Thomas Sherman	Texas	June 21, 1926	19	6	8	9
41	Weiss, Frederick Adolph, jr.	Massachusetts	June 28, 1926	17	10	7	1
275	Weller, Donald McPherrin	West Virginia	June 21, 1926	18	2	8	9
218	Weller, Samuel Paxton, jr.	Tennessee	do	18	3	8	9
70	Wesanen, William Frank	Massachusetts	June 14, 1926	19	8	8	9
259	West, Albert Roswell	North Carolina	July 1, 1926	16	6	8	9
348	Westhofen, Charles Louis	Wisconsin	July 26, 1926	18	10	3	26
389	Westropp, Harold Patrick	Ohio	June 20, 1925	20	2	11	3
55	Whelchel, David Lee	Georgia	Aug. 12, 1926	20	0	6	3
338	Whitaker, Joe McAdams	Tennessee	June 28, 1926	19	2	8	9
35	White, Oliver Edward	Indiana	June 16, 1926	17	6	8	9
341	Whitehurst, Edson Hill	New York	June 21, 1926	18	3	8	9
251	Whitfield, James Dickson, jr.	Tennessee	June 22, 1926	18	8	8	9
324	Wilbourne, William Wilkerson ..	Alabama	do	17	11	8	9
260	Wilbur, James Taylor	Michigan	Aug. 14, 1926	18	9	8	9
181	Williams, Francis Hubert	Florida	June 14, 1926	19	9	8	9
*5	Williams, Glendon Dean	Iowa	do	18	5	8	9
383	Williams, Macpherson Berrien ..	Georgia	July 27, 1926	20	1	8	9
302	Wilson, Francis Edmond	Missouri	June 23, 1926	19	2	8	9
45	Winant, Frank Ingersoll, jr.	Maryland	July 2, 1926	19	7	8	9
326	Wingard, Walter Clement, jr.	Georgia	June 15, 1926	17	6	8	9
160	Wogan, Thomas Lincoln	New York	June 28, 1926	17	5	8	9
391	Wolverton, Royal Allen	Oklahoma	Aug. 19, 1926	19	6	8	9
357	Woodard, William Thornton	Kansas	June 18, 1926	19	4	8	9
368	Woodruff, James Albert, jr.	Vermont	June 23, 1926	17	11	7	15
394	Wright, Thomas Kenneth	Alabama	June 14, 1926	20	2	8	9
342	Wygant, Henry Sollett, jr.	Oklahoma	Aug. 21, 1926	20	3	8	9
202	Wylie, William Naylor	Ohio	July 14, 1926	18	9	8	9
247	Yeaton, Samuel Sylvester	Maine	do	19	2	8	9
172	Young, Joseph Burwell Hawkins ..	Pennsylvania	June 21, 1926	17	9	8	9

third year of their academic course, 416 members, June, 1929—Continued

Seaman- ship and flight tactics	Ordnance and gun- nery	Navigation	Engineer- ing and aero- nautics	Mathe- matics	Electrical engineer- ing and physics	Lan- guages	Aptitude for service	Aggregate third year
Maximum								
24	24	48	56	36	48	16	48	300
16.62	16.50	31.44	37.26	25.38	31.52	11.12	35.16	205.00
19.38	19.86	35.22	45.18	25.83	35.64	12.36	38.52	231.99
16.92	17.28	31.02	36.22	22.68	33.12	11.44	41.40	210.08
21.24	20.40	41.58	46.40	28.80	42.90	13.24	39.00	253.56
18.48	19.50	35.04	39.68	24.75	33.92	11.28	39.60	222.25
19.62	19.20	39.06	45.26	29.97	41.40	12.28	40.32	247.11
16.50	18.60	32.58	37.34	23.04	32.12	11.40	40.32	211.90
20.22	21.06	39.06	46.30	28.53	39.56	13.52	40.56	248.81
19.20	18.96	35.16	40.64	25.20	35.28	10.72	36.00	221.16
18.18	17.40	36.96	39.26	24.84	37.56	13.00	39.12	226.32
18.84	19.44	40.26	41.08	29.97	39.56	12.28	40.68	242.11
16.86	16.92	37.74	38.46	28.26	34.28	10.08	39.60	222.20
17.64	17.88	32.52	39.42	24.57	33.88	11.12	37.08	214.11
18.42	17.40	33.06	35.66	23.76	32.12	12.20	35.64	208.26
18.96	18.78	37.14	43.30	29.43	39.20	14.20	43.30	244.81
16.56	16.56	31.92	37.22	26.64	35.24	11.80	39.12	215.06
19.20	17.40	43.32	43.60	32.76	42.68	11.68	40.44	251.08
18.78	16.98	35.52	36.88	25.74	34.00	11.80	35.04	214.74
19.14	20.52	33.54	40.40	24.30	35.24	10.48	38.88	222.50
16.38	17.46	33.90	37.76	23.85	33.72	11.40	41.88	216.35
18.60	18.24	34.20	39.50	24.48	33.08	11.08	42.96	222.14
18.06	19.74	36.12	39.70	25.38	36.84	11.40	41.64	228.88
19.92	20.28	42.66	45.12	33.93	43.60	13.48	42.00	260.99
15.66	15.42	31.98	36.88	24.12	31.68	11.76	42.24	209.74
16.62	18.24	37.68	39.38	24.66	34.32	10.88	36.24	218.02
19.68	19.02	41.88	41.78	31.32	39.76	13.24	40.20	246.88
17.38	18.54	33.06	39.64	22.68	32.96	12.20	39.48	216.14
18.24	18.48	37.92	38.84	26.82	38.32	14.48	38.04	231.14
15.66	17.64	32.58	36.88	23.04	30.60	12.24	39.00	207.64
17.40	17.28	33.96	37.70	23.85	32.96	10.04	39.84	213.03
17.70	18.42	31.98	38.06	23.31	31.92	11.32	39.00	211.71
16.56	17.22	32.52	36.94	23.94	31.08	10.24	38.52	207.02
16.92	17.10	33.66	37.42	23.67	32.52	10.60	42.84	214.73
18.36	20.28	36.00	42.78	26.73	33.96	11.88	37.32	227.31
19.26	18.18	35.94	38.56	24.30	37.00	10.84	38.52	222.60
18.78	20.04	36.00	42.04	25.92	36.24	13.28	37.80	230.10

MERIT ROLL OF THE PRESENT SECOND CLASS

Merit roll of the midshipmen of the present second class (class of 1931),

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission	
				Years	Months
161	Abbott, Howard Joseph.....	Iowa.....	June 22, 1927	17	1
325	Adair, Noah, jr.....	Arizona.....	June 15, 1927	18	10
467	Adams, Richard Welker.....	Pennsylvania.....	Aug. 29, 1927	19	0
176	Adams, Wayne Horace.....	Illinois.....	July 2, 1927	19	11
277	Aldrich, Charles Warren.....	California.....	June 28, 1927	18	10
279	Allen, Edward Henry.....	North Dakota.....	June 14, 1927	19	3
284	Allen, Robbins Woodhouse.....	Connecticut.....	July 15, 1927	17	10
45	Almgren, Charles Raymond.....	Illinois.....	June 16, 1927	18	7
458	Alston, Augustus Howard, jr.....	Georgia.....	do.....	19	10
36	Anderson, Charles Edison.....	do.....	June 15, 1927	18	8
177	Anderson, Jay Stephens.....	Montana.....	June 14, 1927	19	1
*2	Anderson, Richard Kerfoot.....	Kentucky.....	June 15, 1927	17	7
343	Andrews, Richard Stottko.....	New Mexico.....	June 30, 1927	19	11
148	Antrim, Richard Nott.....	Indiana.....	June 20, 1927	19	6
230	Ardito, William Angelo.....	Massachusetts.....	July 5, 1927	17	3
264	Ashworth, Philip Hamilton.....	do.....	June 13, 1927	18	9
70	Ashworth, Thomas, jr.....	Idaho.....	do.....	18	10
425	Axelson, Karl Axel Sigfrid.....	Illinois.....	June 15, 1927	18	1
212	Bailey, Walter Clyde.....	California.....	June 30, 1927	18	4
253	Barker, Horace Dill.....	New Jersey.....	June 14, 1927	19	8
330	Barr, Clark Heimark.....	California.....	June 30, 1927	19	7
297	Bass, Raymond Henry.....	Arkansas.....	June 29, 1927	16	6
56	Bater, Harold.....	New Jersey.....	June 14, 1927	18	8
19	Bauer, Dale Albert.....	Nebraska.....	June 16, 1927	19	9
370	Beckmann, Alcorn Gustav.....	Missouri.....	do.....	19	11
301	Becton, Frederick Julian.....	Arkansas.....	June 15, 1927	19	1
216	Beebe, Robert Park.....	Utah.....	June 21, 1927	17	7
214	Bell, Allen Chamberlain.....	North Carolina.....	June 16, 1927	18	8
375	Bellis, Louis Joseph.....	New York.....	do.....	19	4
210	Bence, Robert Lawrence.....	Indiana.....	June 27, 1927	18	9
313	Berthold, Kenneth Carmel.....	Massachusetts.....	June 17, 1927	19	3
52	Betts, Sherman Wilcox.....	New York.....	June 14, 1927	17	8
50	Biglow, James Otis.....	Ohio.....	do.....	19	9
295	Bingham, Edward Meade.....	Virginia.....	June 30, 1927	20	2
368	Black, Joseph Dean.....	Illinois.....	June 13, 1927	18	5
53	Black, Orrin Franklin.....	Kentucky.....	June 15, 1927	20	2
249	Blessman, Edward Martin.....	Wisconsin.....	June 21, 1927	19	6
40	Booth, Charles Thomas, 2d.....	Massachusetts.....	do.....	17	5
468	Bouvé, Warren Lincoln.....	Maryland.....	June 18, 1927	18	6
344	Bowstrom, Robert Milton.....	Michigan.....	July 15, 1927	19	9
407	Brace, Frederic Richard.....	California.....	Aug. 20, 1926	18	1
190	Braught, Charles Franklin.....	Pennsylvania.....	June 21, 1927	17	0
105	Braun, William Baumert.....	New Jersey.....	June 14, 1927	17	10
191	Brockway, John Hadley.....	Wyoming.....	June 23, 1927	17	0
169	Bronson, Ward.....	New York.....	Aug. 1, 1927	16	11
156	Brooks, Charles Ballance, jr.....	Tennessee.....	June 20, 1927	17	2
64	Brossy, Henry Earl.....	New York.....	June 30, 1927	18	11
113	Brown, Elliott Mitchell.....	Utah.....	June 14, 1927	19	10
196	Brown, Nelson Kenyon.....	Pennsylvania.....	July 5, 1927	18	6
405	Brown, Robert Samuel.....	Arkansas.....	July 11, 1927	19	11
44	Brunelli, Austin Roger.....	New Mexico.....	June 17, 1927	19	10
439	Brush, Frederick James.....	Pennsylvania.....	July 5, 1927	18	11
137	Buchholz, Gustavus William, jr.....	North Carolina.....	June 17, 1927	18	11
227	Burns, Edward Stitt.....	Alabama.....	June 15, 1927	18	10
237	Burt, Eugene Vosburgh.....	Minnesota.....	June 16, 1927	18	1

for the second year of their academic course, 480 members, June, 1929

Sea service in practice ships		Engineering and aeronautics	Mathematics	Electrical engineering and physics	English	Languages	Aptitude for the service	Aggregate second year
Months	Days	Maximum						
		32	56	28	32	24	28	200
2	21	22.16	40.60	20.50	25.20	20.52	24.78	153.76
2	21	22.04	38.22	19.63	22.36	19.65	22.54	144.44
2	21	21.12	35.70	17.70	20.92	16.53	21.84	133.81
2	21	22.16	37.94	20.10	25.80	22.23	24.85	153.08
2	21	22.00	39.20	18.88	24.64	19.47	22.68	146.87
2	21	24.28	42.63	20.90	21.96	15.51	21.56	146.84
2	21	26.20	37.94	20.83	23.20	17.31	21.14	146.62
2	21	25.00	46.76	23.12	25.84	18.51	25.27	164.50
2	21	21.28	36.05	18.80	20.12	16.05	24.01	136.31
2	21	26.44	46.55	22.65	26.64	19.20	24.15	165.63
2	21	22.36	43.26	20.48	23.84	19.95	23.17	153.06
2	21	28.20	48.79	25.65	28.32	21.36	24.92	177.24
2	21	21.36	36.19	19.36	23.68	17.52	25.34	143.45
1	23	24.28	39.83	22.23	25.40	17.97	24.85	154.56
2	21	26.52	40.25	20.03	23.00	17.82	21.49	149.11
2	21	24.84	37.80	20.71	24.00	16.98	23.10	147.43
2	21	24.88	44.17	23.56	24.44	20.22	24.57	161.84
2	21	20.92	34.30	18.03	25.20	17.46	23.73	139.64
2	21	22.60	38.99	20.83	24.68	20.67	22.47	150.24
2	21	24.96	38.50	19.20	23.56	19.83	21.98	148.03
2	21	23.68	37.94	20.58	22.00	17.10	22.89	144.19
2	21	22.04	40.67	20.74	23.00	16.59	23.03	146.07
2	21	25.20	46.20	22.80	25.44	19.05	24.36	163.05
1	23	25.76	47.74	24.35	25.76	19.98	25.69	169.28
2	21	22.44	36.75	19.30	24.24	16.50	22.96	142.19
2	21	21.36	38.22	18.94	22.68	19.14	25.55	145.89
2	21	25.36	41.23	20.85	23.76	16.20	22.61	150.01
2	21	23.60	41.09	21.73	23.80	17.07	22.89	150.18
2	21	21.12	36.19	19.41	24.60	16.86	23.80	141.98
2	21	22.12	41.23	20.22	23.64	19.86	23.52	150.59
2	21	23.04	36.96	19.92	23.16	19.65	22.54	145.27
2	21	25.24	43.54	23.05	26.64	20.58	24.22	163.27
2	21	27.68	48.86	21.46	23.40	18.63	23.31	163.34
2	21	24.00	37.94	20.51	23.64	16.44	23.66	146.19
2	21	23.36	37.87	19.11	22.32	16.65	22.96	142.27
1	23	23.96	50.40	22.47	23.20	21.60	21.63	163.26
2	21	22.96	36.26	20.44	25.04	19.92	23.52	148.14
2	21	27.20	43.33	23.32	26.16	21.69	23.24	164.94
2	21	21.32	34.93	18.41	22.20	15.99	20.30	133.15
1	23	22.40	35.91	18.42	22.04	19.17	25.48	143.42
2	21	22.80	38.50	19.61	22.00	18.21	19.39	140.51
2	21	26.36	40.11	20.78	23.44	16.86	24.43	151.98
2	21	24.60	42.42	22.84	24.60	20.04	23.73	158.23
2	21	22.32	41.93	19.62	23.80	20.22	24.08	151.97
2	21	24.56	42.56	21.05	23.48	18.60	23.10	153.35
2	21	24.28	43.40	20.78	24.04	17.46	24.22	154.18
2	21	26.64	43.05	22.37	29.36	16.38	24.36	162.16
2	21	23.96	44.17	22.18	25.04	18.45	24.01	157.81
2	21	22.28	39.62	20.23	24.24	20.07	25.13	151.57
2	21	20.76	38.01	18.46	22.04	17.94	23.45	140.66
2	21	24.04	47.67	22.71	24.32	20.79	24.99	164.52
2	21	21.00	36.82	18.48	22.60	16.17	23.87	138.94
2	21	25.60	43.33	21.41	23.20	18.18	23.66	155.38
2	21	23.48	40.18	20.96	24.68	17.49	22.47	149.26
2	21	23.88	39.90	20.48	23.08	18.18	23.31	148.83

Merit roll of the midshipmen of the present second class (class of 1931), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission	
				Years	Months
114	Butterfield, Albert William	Illinois	Aug. 8, 1927	17	8
373	Byng, John Weston	New York	Sept. 14, 1927	18	8
62	Callaway, Peyton Parks	Missouri	June 14, 1927	19	5
153	Carr, Bruce Lewis	Ohio	June 21, 1927	19	11
423	Cashman, John Daniel	California	June 30, 1927	18	6
406	Cassedy, Hiram	Mississippi	June 16, 1927	18	11
82	Castree, John Fordyce	Pennsylvania	June 30, 1927	19	8
263	Chandler, Bryant Ackley	New York	June 23, 1927	18	8
86	Chew, John Louis	Georgia	June 28, 1927	17	9
170	Child, Harris Petrikin	Pennsylvania	June 21, 1927	17	6
361	Clarke, Paul Walker	Virginia	June 20, 1927	19	1
348	Coffin, Le Roy Andrew	Minnesota	June 18, 1927	17	8
466	Collett, James Dahlman	Nebraska	June 16, 1927	18	1
*12	Colwell, John Barr	do	June 21, 1927	17	7
293	Cone, James Ingham	Florida	June 13, 1927	19	0
147	Cook, Charles Olney, jr.	Michigan	June 17, 1927	16	4
118	Cook, John Henry, jr.	At large (Pres.)	Aug. 4, 1927	19	4
416	Cook, Lawrence Blanchard	New Hampshire	June 16, 1927	19	9
448	Cooke, Eb Smith	Mississippi	June 21, 1927	18	7
426	Coon, Denby O'Neill	Georgia	Aug. 26, 1927	17	11
272	Cooper, Harlan Cyril	Indiana	July 2, 1927	19	5
347	Cooper, Robert Ward	New York	June 20, 1927	18	4
379	Copeland, Nathan Carroll	California	June 13, 1927	19	11
393	Copeman, Thomas Henry	Pennsylvania	June 20, 1927	20	2
388	Corliss, Warren George	Vermont	July 12, 1927	17	1
103	Cowell, La Vere	North Dakota	June 24, 1927	19	8
104	Cox, Marshall Herbert	California	June 15, 1927	19	11
128	Crane, Leo O	P. A. 348 (Pres.)	do	19	7
207	Crane, Richard Henry	Connecticut	June 14, 1927	19	2
243	Crinkley, Francis Duke	North Carolina	June 30, 1927	19	5
184	Crommelin, Charles Lawrence	Alabama	June 21, 1927	18	3
229	Crowley, John Daniel	Massachusetts	Aug. 11, 1927	18	11
303	Crumpacker, John Webber	Indiana	July 13, 1927	19	0
150	Cullinan, Ralph Francis, jr.	New York	June 20, 1927	18	3
273	Cumberledge, Arthur Albert	Ohio	June 29, 1927	19	1
77	Cummings, Damon Morris	At large (Pres.)	June 20, 1927	17	5
*9	Daniels, Arthur Noyes	California	June 13, 1927	18	8
204	Daniels, Donald Vickers	South Dakota	June 14, 1927	18	0
456½	Davis, DeAtley Ingalls	Kansas	June 15, 1927	18	4
443	Davis, James Henry	Utah	June 14, 1927	20	1
409	Day, Carl Albert	Kansas	June 23, 1927	19	10
*11	Day, Edward Maynard	Pennsylvania	June 14, 1927	17	4
463	DeMetropolis, George	New York	June 16, 1927	18	2
352	Dempsey, James Charles	At large (Pres.)	June 14, 1927	18	9
319	De Young, Henry George	Michigan	June 16, 1927	19	11
320½	Dillon, Edward James	New York	do	20	0
89	Dodson, Lucian Frank	Illinois	June 13, 1927	18	11
16	Dorsett, John Orem Fillmore	Indiana	June 15, 1927	20	0
285	Drake, Harrington Max	California	July 11, 1927	18	2
dd371	Drum, Andrew Boggs, jr.	At large (Pres.)	June 14, 1927	17	10
381	Dunn, William Archer	Mississippi	June 21, 1927	20	2
58	Elden, Ralph Waldo	Oregon	June 14, 1927	19	11
66	Ellis, Lee Adrian	Wisconsin	June 20, 1927	19	9
342	Ellsworth, Ernest Bradford, jr.	Connecticut	July 12, 1927	17	10
157	Engel, Edmund Lyford	Washington	do	17	10

second year of their academic course, 480 members, June, 1929—Continued

Sea service in practice ships		Engineering and aeronautics	Mathematics	Electrical engineering and physics	English	Languages	Aptitude for the service	Aggregate second year
Months	Days	Maximum						
		32	56	28	32	24	28	200
2	21	25.05	46.62	22.58	23.00	16.80	23.66	157.71
1	14	22.76	37.80	18.34	22.84	16.47	23.80	142.01
2	21	27.08	41.86	23.42	25.56	19.59	24.78	162.29
2	21	24.16	42.56	21.41	25.00	18.99	22.26	154.38
2	21	21.08	35.84	17.97	23.72	17.88	23.24	139.73
2	21	21.16	35.77	18.36	24.60	15.63	25.06	140.58
1	23	24.76	44.52	23.07	24.80	18.09	24.69	160.93
2	21	22.28	37.10	20.04	23.32	19.65	25.06	147.45
2	21	26.44	43.19	23.25	24.88	18.30	24.50	160.56
2	21	23.20	46.34	20.48	22.88	16.50	23.94	153.34
2	21	22.60	38.36	20.30	22.60	15.99	22.89	142.74
1	20	23.96	36.75	19.65	23.32	15.93	23.73	143.34
2	21	20.28	35.14	17.66	22.60	16.62	22.68	134.98
2	21	25.12	47.88	25.31	26.72	20.85	24.64	170.52
2	21	23.00	38.78	19.92	23.00	18.75	22.75	146.20
2	21	22.68	42.21	19.91	25.96	19.23	24.64	154.63
2	21	25.88	47.67	21.07	22.40	17.04	23.03	157.09
2	21	21.52	35.35	19.03	22.68	16.98	24.57	140.13
2	21	21.96	36.75	18.95	22.68	16.83	20.93	138.10
2	21	21.44	35.14	18.63	22.84	18.33	23.17	139.55
2	21	22.16	38.57	20.26	25.40	17.04	23.59	147.02
2	21	22.84	35.49	19.85	24.16	17.79	23.24	143.37
2	21	22.52	37.24	19.10	23.12	16.86	22.96	141.80
2	21	23.64	36.12	19.09	22.76	16.74	22.89	141.24
2	21	21.40	37.45	19.57	23.28	18.57	21.21	141.48
2	21	24.88	42.70	21.91	27.48	17.37	23.94	148.28
2	21	22.04	42.91	21.45	26.16	22.89	22.82	158.27
1	23	23.92	44.73	21.12	22.96	19.26	24.29	156.28
2	21	23.32	37.52	20.45	24.32	21.33	23.80	150.74
1	12	22.92	37.94	20.51	24.92	18.75	23.38	148.42
2	21	24.40	40.32	21.17	23.80	17.76	25.06	152.51
2	21	24.52	39.55	21.56	23.72	17.13	22.68	149.16
2	21	23.76	36.75	19.91	25.24	16.26	23.80	145.72
2	21	22.92	39.48	20.97	24.88	22.14	24.08	154.47
2	21	24.08	40.60	21.70	22.60	16.02	21.98	146.98
2	21	24.00	41.23	22.18	28.00	21.48	24.36	161.25
2	21	28.20	49.49	25.29	24.80	19.80	24.22	171.80
2	21	24.04	42.28	22.23	23.64	15.96	22.89	151.04
2	21	20.56	35.63	18.60	23.00	18.48	20.30	136.57
2	21	20.84	36.75	18.34	22.28	16.02	24.29	138.52
2	21	23.44	35.63	18.55	23.60	15.75	23.52	140.49
2	21	28.60	48.79	25.15	25.28	20.04	22.75	170.61
2	21	20.44	36.05	17.86	22.08	16.29	22.89	135.61
2	21	21.28	36.05	19.47	24.56	17.61	24.15	143.12
2	21	23.20	36.75	19.36	25.20	17.19	23.17	144.87
2	21	22.24	37.59	19.06	25.40	18.03	22.47	144.79
2	21	23.96	44.38	21.58	26.04	20.07	23.87	159.90
2	21	27.56	49.77	24.59	25.28	18.99	23.73	169.92
2	21	24.88	40.81	21.31	22.40	16.62	20.51	146.53
2	21	21.80	37.80	20.17	24.00	17.94	20.37	142.08
2	21	21.56	36.89	19.25	23.12	16.89	24.08	141.79
2	21	24.52	46.69	23.60	25.20	18.75	24.08	162.84
2	21	25.20	44.31	23.66	25.16	19.56	24.08	161.97
2	21	22.20	36.05	20.48	23.56	17.61	23.73	143.63
2	21	23.36	42.00	20.29	24.44	18.96	24.99	154.04

Merit roll of the midshipmen of the present second class (class of 1931), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission	
				Years	Months
97	Engelhardt, Egon Paul.....	New York.....	June 18, 1926	20	2
57	Ernest, Ralph Nelson.....	Pennsylvania.....	June 30, 1927	19	4
352½	Evans, Ernest Edwin.....	Oklahoma.....	June 29, 1927	18	11
78	Fabian, Rudolph Joseph.....	Montana.....	June 21, 1927	19	1
131	Fahle, Robert Schley.....	Texas.....do.....	June 23, 1927	17	11
228	Farquharson, Robert Burns, jr.....	Vermont.....	June 20, 1927	17	1
395	Farrington, Elwin Levi.....	California.....	June 28, 1927	19	8
402	Fawcett, Isaac.....	Illinois.....	June 29, 1927	18	11
146	Fellows, John Benjamin, jr.....	Massachusetts.....	June 13, 1927	17	4
186	Felton, Cleon Henry.....	Indiana.....	July 1, 1927	19	8
234	Ferguson, Edward Franklin.....	Connecticut.....	June 30, 1927	18	11
100	Ferrill, Homer Edwin.....	Illinois.....	June 23, 1927	18	9
164	Fiala, Reid Puryear.....	New York.....	July 19, 1927	18	6
250	Field, Benjamin Prince, jr.....	do.....	June 15, 1927	19	0
71	Firth, Maxim William.....	Vermont.....	June 14, 1927	19	0
454	Fisher, Edward Whitney.....	Wisconsin.....	June 20, 1927	18	1
76	Fitch, Robert Atwood.....	Nebraska.....	June 21, 1927	19	3
258	Fitts, William Wilson.....	Georgia.....	June 13, 1927	18	7
270	Fitzgerald, John Allison.....	California.....	June 30, 1927	19	1
200½	Fitzgerald, William Henry.....	Massachusetts.....	June 16, 1927	17	6
39	Flaherty, Arthur Ingoldsby.....	do.....	July 20, 1927	17	3
20	Flynn, Joseph Edward.....	New York.....	June 14, 1927	19	7
267	Fojt, Robert Edward.....	Texas.....	June 21, 1926	20	2
55	Foley, Francis Joseph.....	New York.....	June 16, 1927	17	1
69	Foley, Joseph Ferrall.....	Georgia.....	July 15, 1927	18	9
185	Forbes, Lorenz Quenzer.....	New York.....	June 16, 1927	17	7
257	Forde, George Stephen John.....	Pennsylvania.....	June 23, 1927	18	10
324	Forney, Edward Hanna, jr.....	New York.....	June 27, 1927	17	10
337	Foster, Edward Lee.....	Alabama.....	June 21, 1927	17	5
51	Francisco, José.....	Philippine Islands.....	Aug. 15, 1927	18	1
166	Fraser, Archie Donald.....	California.....	July 11, 1927	18	1
447	Freeman, George Fonville.....	Tennessee.....	June 20, 1927	18	7
414	Freshour, William McKee.....	Ohio.....	June 23, 1927	17	11
243	Gaasterland, Clarence LeRoy.....	Minnesota.....	June 16, 1927	18	1
22	Gadrow, Robert Emmett.....	Rhode Island.....	June 30, 1927	19	5
31	Gale, Winsor Colvig.....	Oregon.....	June 16, 1927	19	8
345	Gallaher, Wilmer Earl.....	Delaware.....	June 30, 1927	20	2
33	Games, Edmund Burke.....	Ohio.....	June 29, 1927	18	1
271	Gannon, John Wendell.....	California.....	July 11, 1927	18	3
401	Gardiner, Joseph Marshall.....	Kansas.....	June 15, 1927	18	10
252	Garton, Will Melville, jr.....	At large (Pres.).....	June 27, 1927	17	2
103	Gaviglio, Peter Massimo.....	California.....	June 25, 1927	19	4
233	Ghetzler, Benjamin.....	Texas.....	June 30, 1927	19	9
90	Gibson, Wayne Folk.....	Arkansas.....	June 21, 1927	19	8
329	Gilbert, Roy Owen, jr.....	Illinois.....	July 12, 1926	19	4
310	Giles, William Jefferson, jr.....	At large (Pres.).....	June 21, 1927	18	4
411	Gillespie, Thomas Evan.....	Arkansas.....	June 13, 1927	20	0
333	Gillette, Ralph Gorton.....	New York.....	June 14, 1927	19	8
255	Kimber, Harry Meeker Stuart, jr.....	Pennsylvania.....	June 20, 1927	17	7
†315	Girard, Clet Anthony, jr.....	Louisiana.....	June 13, 1927	17	5
359	Gould, Frank Gardner.....	Florida.....	June 15, 1927	19	11
453	Graham, Donald Stuart.....	Minnesota.....	June 14, 1927	19	3
328	Grant, James Dorr.....	Ohio.....	July 14, 1927	19	3
159	Gray, Albert Downing.....	Pennsylvania.....	June 20, 1927	17	5
157	Gray, Hugh Douglas.....	Alaska.....	June 14, 1927	19	0

second year of their academic course, 480 members, June, 1929—Continued

Sea service in practice ships		Engineering and aeronautics	Mathematics	Electrical engineering and physics	English	Languages	Aptitude for the service	Aggregate second year
Months	Days	Maximum						
		32	56	28	32	24	28	200
5	15	27.48	44.73	21.90	23.44	18.03	23.03	158.61
2	21	23.60	44.38	22.82	26.63	21.06	24.43	162.97
2	21	21.32	37.10	19.95	23.60	18.48	22.61	143.06
2	21	24.04	43.61	21.71	24.48	22.20	25.13	161.17
2	21	25.40	41.16	22.37	24.28	20.46	22.47	156.14
2	21	24.64	38.85	21.30	23.48	15.99	24.92	149.18
2	21	22.52	36.19	18.95	24.08	16.47	22.82	141.03
2	21	22.00	37.45	20.12	22.92	16.59	21.84	140.92
2	21	24.96	39.83	21.70	24.92	18.84	24.43	154.68
2	21	22.72	42.91	23.37	22.64	17.07	23.52	152.23
2	21	21.80	39.55	21.74	24.84	17.94	23.03	148.90
2	21	26.60	41.72	21.80	25.64	20.22	22.47	158.45
2	21	24.56	43.05	21.43	24.48	17.16	22.96	153.64
2	21	22.56	36.33	19.79	26.08	20.10	23.24	148.10
2	21	24.48	46.20	22.54	24.88	19.89	23.73	161.72
2	21	20.60	36.05	18.17	23.44	15.99	23.10	137.35
2	21	24.76	46.34	22.58	24.32	19.11	24.29	161.40
2	21	22.60	39.90	19.22	24.64	17.10	24.15	147.61
2	18	22.40	40.39	20.16	22.56	17.73	24.01	147.25
2	21	21.80	40.18	19.89	24.24	21.09	24.08	151.28
2	21	24.72	44.80	23.72	27.08	21.30	23.38	165.00
2	21	25.32	44.87	22.98	27.48	23.34	25.20	169.19
3	9	24.16	40.53	19.99	22.36	17.58	22.75	147.37
2	21	25.52	45.15	23.23	25.76	19.47	24.01	163.14
2	21	26.68	43.61	22.37	26.28	20.13	22.82	161.89
2	21	22.08	44.87	20.65	21.80	20.94	21.91	152.25
2	21	22.44	36.68	20.10	24.12	19.29	24.99	147.62
2	21	22.44	37.73	19.58	25.64	16.23	22.96	144.58
2	21	24.20	39.20	19.41	21.36	16.17	23.52	143.86
2	21	23.80	44.17	22.79	25.84	23.49	23.24	163.33
2	21	26.28	40.88	20.87	23.76	17.52	24.22	153.53
2	21	21.32	36.61	18.18	23.08	15.84	23.24	138.27
2	21	21.72	35.42	19.70	21.92	16.26	25.20	140.22
2	21	24.60	40.18	21.13	22.96	16.32	22.96	148.15
2	21	23.92	49.00	23.59	25.84	21.27	24.15	167.77
2	21	26.16	50.82	23.04	24.68	18.06	23.45	166.21
2	21	22.04	37.52	19.66	24.92	15.87	23.38	143.39
2	21	26.48	45.43	23.20	25.68	20.70	24.50	165.99
1	23	22.16	37.87	19.57	24.32	18.00	25.13	147.05
2	21	22.92	36.82	19.91	22.12	15.87	23.31	140.95
2	21	24.04	39.76	20.00	24.04	16.65	22.26	146.75
2	21	24.04	41.93	21.91	26.96	19.53	23.73	155.10
2	21	22.64	38.64	20.39	24.80	18.81	23.52	148.80
2	21	24.60	47.67	22.55	24.28	17.85	22.89	159.84
2	21	24.08	37.87	18.86	23.64	18.03	21.77	144.25
2	21	21.28	37.94	19.82	24.68	20.19	21.49	145.40
2	21	21.36	36.47	18.37	22.80	16.23	25.20	140.43
2	21	22.88	36.89	18.33	23.24	19.32	23.45	144.11
2	21	22.08	38.85	19.10	26.00	18.27	23.59	147.89
2	21	21.36	35.42	18.58	24.72	20.35	24.71	145.14
2	21	21.28	38.29	19.76	23.56	15.78	22.75	141.42
2	21	21.40	36.54	18.37	21.60	16.08	23.45	137.44
2	21	22.20	36.75	19.70	24.00	17.88	23.87	144.40
1	12	24.80	40.95	21.06	21.96	19.29	25.83	153.89
2	21	23.24	42.56	21.40	24.72	17.97	24.15	154.04

Merit roll of the midshipmen of the present second class (class of 1931), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission	
				Years	Months
99	Gray, Robert Lawrence.....	Alabama.....	June 15, 1927	18	11
449	Greathouse, John Furman.....	Texas.....	June 20, 1927	19	11
377	Greenbank, Lawrence Worthington.....	Ohio.....	June 30, 1927	18	3
18	Greene, George Myron.....	Arizona.....	July 2, 1927	18	4
87	Greene, Thomas Jethro.....	Iowa.....	June 15, 1927	19	4
314	Grinstead, Loren.....	Washington.....	July 15, 1927	17	3
35	Guilbert, Edward Hunt.....	Illinois.....	June 20, 1927	17	9
88	Gurnette, Byron Lawrence.....	California.....	June 15, 1927	17	11
71	Hagberg, Oscar Emil.....	West Virginia.....	June 14, 1927	18	6
94	Hain, Vernon Rex.....	Ohio.....	June 15, 1927	19	8
372½	Hale, Henry Henderson.....	Indiana.....	do.....	19	11
312	Hall, Madison, jr.....	Texas.....	June 21, 1927	16	4
423	Hall, Norman.....	New York.....	June 15, 1927	17	9
231	Hamm, Mann.....	Texas.....	June 20, 1927	18	0
307	Hammond, Douglas Thompson.....	Arkansas.....	June 21, 1927	18	6
203	Harper, John Frank, jr.....	Maryland.....	June 20, 1927	18	3
g124	Harris, Marvin Luther, jr.....	Virginia.....	do.....	19	9
25	Hatton, George Anthony.....	Illinois.....	do.....	19	8
133	Hawk, Claude Vernon.....	Utah.....	July 1, 1927	17	6
456	Hawkins, Carson.....	Nevada.....	June 16, 1927	19	3
91	Hay, Richard Ross.....	Massachusetts.....	do.....	18	3
365	Head, Nelson Mead.....	Virginia.....	June 29, 1927	18	3
117	Heilig, Robert Bube.....	Pennsylvania.....	Aug. 18, 1927	17	4
*10	Hibschman, Maurice Wilhelm.....	Washington.....	June 20, 1927	19	9
332	Hill, Andrew Jewel, jr.....	Missouri.....	June 27, 1927	17	8
241	Hogan, Thomas Wesley, jr.....	Georgia.....	June 13, 1927	18	2
362	Holcomb, Bankson Taylor, jr.....	Delaware.....	July 2, 1927	19	3
95	Holden, Harry Worden.....	Vermont.....	July 11, 1927	17	7
360	Hollingsworth, John Christie.....	Georgia.....	June 27, 1927	17	10
80	Hollister, William Wallace.....	Wisconsin.....	July 1, 1927	19	8
110	Holmes, Merrill Sylvester.....	Pennsylvania.....	June 23, 1927	18	0
261	Holtz, Arnold Henry.....	Wisconsin.....	June 20, 1927	18	5
17	Holtzworth, Ernest Charles.....	West Virginia.....	do.....	19	5
111	Hooper, Edwin Bickford.....	Massachusetts.....	Aug. 15, 1927	18	6
181	Howe, Charles Melville, III.....	P. A. 348 (Pres.).....	June 21, 1927	17	11
350	Hoye, Francis Wallace.....	Massachusetts.....	July 14, 1927	19	4
26	Hudson, Lewis Cheatham, jr.....	Mississippi.....	June 21, 1927	16	11
163	Hudson, Robert Edgar.....	Oklahoma.....	do.....	16	3
402½	Huff, George Perry.....	California.....	July 5, 1927	19	3
298	Hughes, John Nelson.....	Iowa.....	June 21, 1927	17	7
278	Hughes, William Christopher, jr.....	Missouri.....	June 28, 1927	17	5
54	Hunt, Richard Field, jr.....	Massachusetts.....	June 16, 1927	19	0
200	Hunter, Raymond Paul.....	Texas.....	June 20, 1927	18	5
259	Hunter, William Adair, jr.....	Pennsylvania.....	June 16, 1927	18	1
403	Huntley, John David.....	Ohio.....	June 14, 1927	19	6
219	Irons, Alden Hatheway.....	Delaware.....	July 13, 1927	16	11
436	Iverson, Clifton.....	Minnesota.....	July 5, 1927	18	11
440	Jacobs, Raymond Halford.....	Michigan.....	July 6, 1927	16	3
92	Janz, Clifford Thurston.....	New Jersey.....	June 21, 1927	17	4
341	Jensen, Marvin John.....	Wisconsin.....	June 14, 1927	18	11
307½	Jett, Charles Melbourne.....	Indiana.....	June 30, 1927	19	10
172	Johnsen, William Harry.....	Iowa.....	June 15, 1927	20	1
209	Johnson, Harlan Thode.....	Oklahoma.....	June 27, 1927	17	2
429	Johnson, Willis Ormond.....	Illinois.....	June 15, 1927	17	8
417½	Jones, Alvin Arthur.....	Washington.....	Sept. 19, 1927	20	2

second year of their academic course, 480 members, June, 1929—Continued

Sea service in practice ships		Engineering and aeronautics	Mathematics	Electrical engineering and physics	English	Languages	Aptitude for the service	Aggregate second year
Months	Days	Maximum						
		32	56	28	32	24	28	200
2	21	24. 76	45. 15	22. 41	24. 28	17. 79	24. 08	158. 47
1	12	21. 00	36. 54	18. 62	24. 12	17. 25	20. 51	138. 04
2	21	23. 84	36. 75	18. 69	22. 36	16. 80	23. 45	141. 89
2	21	27. 32	48. 30	24. 50	26. 68	19. 08	23. 73	169. 61
2	21	25. 56	44. 52	21. 73	25. 32	19. 47	23. 80	160. 40
2	21	22. 16	36. 61	17. 92	22. 36	23. 35	22. 82	145. 22
2	21	28. 76	48. 16	23. 04	25. 16	18. 93	21. 77	165. 82
2	21	24. 80	44. 17	22. 61	25. 56	19. 47	23. 45	160. 06
1	23	24. 16	43. 26	21. 99	25. 64	21. 33	25. 34	161. 72
2	21	24. 56	42. 07	22. 66	26. 88	18. 84	24. 01	159. 02
2	21	22. 20	36. 68	19. 56	24. 64	17. 31	21. 63	142. 02
2	21	21. 60	40. 46	19. 69	21. 88	19. 02	22. 68	145. 33
2	21	21. 80	35. 98	17. 92	23. 44	17. 91	22. 68	139. 73
2	21	22. 60	41. 02	20. 02	24. 44	16. 86	24. 15	149. 09
2	21	23. 08	39. 06	19. 81	22. 64	17. 22	23. 73	145. 54
2	21	24. 48	40. 60	20. 19	25. 40	17. 43	22. 96	151. 06
2	21	25. 28	42. 07	23. 04	24. 96	17. 82	23. 38	156. 55
2	21	26. 56	46. 13	24. 34	24. 96	21. 15	24. 22	167. 36
2	21	23. 32	41. 51	20. 72	24. 76	20. 16	25. 13	155. 60
2	21	20. 84	36. 89	19. 14	21. 48	15. 45	23. 31	137. 11
2	21	25. 12	43. 12	22. 44	26. 04	19. 14	23. 80	159. 66
2	21	22. 80	37. 03	18. 72	23. 24	17. 58	23. 17	142. 54
2	21	23. 80	43. 19	21. 47	26. 84	17. 76	24. 29	157. 35
2	21	26. 32	47. 60	23. 79	28. 36	19. 23	25. 76	171. 06
2	21	22. 16	37. 66	19. 14	23. 36	17. 31	24. 50	144. 13
2	21	23. 72	37. 03	19. 02	26. 36	16. 80	25. 62	148. 55
2	21	23. 20	36. 68	19. 67	22. 60	16. 71	23. 87	142. 73
2	21	25. 08	41. 65	21. 62	25. 32	21. 81	23. 52	159. 00
2	21	22. 16	36. 26	18. 63	24. 08	16. 59	25. 06	142. 78
2	21	26. 96	42. 49	21. 02	25. 48	20. 34	24. 85	161. 14
2	21	24. 28	44. 03	20. 96	26. 28	19. 83	22. 47	157. 85
2	21	21. 52	36. 89	19. 63	26. 36	18. 78	24. 36	147. 54
1	23	26. 88	47. 81	24. 84	25. 80	20. 79	23. 73	169. 85
2	21	24. 40	46. 13	21. 64	23. 60	19. 65	22. 40	157. 82
2	21	25. 24	41. 65	21. 88	24. 00	17. 10	22. 89	152. 76
2	21	21. 52	37. 73	18. 28	24. 64	18. 66	22. 40	143. 23
2	21	26. 48	46. 41	23. 91	25. 84	20. 97	23. 45	167. 06
2	21	23. 52	42. 84	21. 79	25. 60	17. 79	22. 12	153. 66
2	21	21. 80	38. 50	19. 94	22. 96	16. 26	21. 42	140. 88
2	21	23. 68	38. 50	20. 29	23. 32	17. 91	22. 33	146. 03
2	21	23. 32	39. 20	21. 72	24. 60	16. 38	21. 63	146. 85
2	21	26. 32	51. 52	21. 70	22. 96	18. 75	21. 98	163. 23
1	12	25. 40	39. 20	21. 61	23. 68	17. 04	24. 36	151. 29
2	21	24. 52	39. 62	20. 21	23. 00	17. 55	22. 68	147. 58
2	21	21. 80	36. 54	19. 02	23. 08	16. 68	23. 73	140. 85
2	10	23. 28	39. 76	22. 67	24. 88	17. 55	21. 63	149. 77
2	21	21. 32	36. 26	18. 88	23. 32	16. 11	23. 10	138. 99
2	21	21. 00	36. 54	18. 76	22. 24	17. 34	23. 03	138. 91
2	21	25. 60	41. 86	21. 57	25. 80	20. 64	24. 15	159. 62
2	21	21. 64	38. 08	18. 72	24. 40	17. 49	23. 38	143. 71
2	21	22. 12	38. 22	20. 22	23. 12	18. 78	23. 03	145. 49
2	21	25. 56	40. 81	19. 62	25. 60	17. 52	24. 01	153. 12
2	21	23. 64	41. 65	20. 56	24. 24	17. 01	23. 59	150. 69
1	23	22. 28	36. 40	18. 38	22. 76	17. 19	22. 33	139. 34
4	10	21. 72	36. 26	18. 53	23. 44	16. 35	23. 66	139. 96

Merit roll of the midshipmen of the present second class (class of 1931), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission	
				Years	Months
101	Jones, Ashton Blair, jr	Missouri	June 23, 1927	19	6
269	Jones, Charles Reed	Delaware	June 13, 1927	19	4
236	Jones, Robert Elmer	Michigan	June 29, 1927	20	1
321	Jones, Robert Francis	Minnesota	Aug. 29, 1927	18	9
382	Jung, Karl Edward	New York	June 28, 1926	19	11
379	Just, John Frederick	Pennsylvania	June 23, 1927	16	10
419	Keithley, Charles Leon	Texas	Aug. 27, 1927	19	0
160	Keller, Albert James	Michigan	July 1, 1927	20	0
155	Kelsey, James Hiram, jr	Massachusetts	July 11, 1927	17	1
235	Ketchum, Gerald Lyle	Washington	June 27, 1927	18	7
151	Kiehlbauch, Joseph Vaughn	South Dakota	June 15, 1927	19	0
431	King, Billy Woodruff	Texas	Aug. 1, 1927	19	1
427	King, Robert Donovan	Indiana	June 16, 1926	18	10
107	King, Victor Albert	Massachusetts	June 13, 1927	19	2
450	Kinzie, Frederick Abraham	Kansas	June 21, 1927	19	2
240	Kirkpatrick, Charles Cochran	Texas	June 30, 1927	20	0
354	Kirkpatrick, Charles Eugene	Utah	June 20, 1927	18	5
275	Kirkpatrick, John Elson	Oklahoma	June 21, 1927	19	4
318	Klein, Millard Jefferson	Tennessee	June 24, 1927	17	11
*14	Kollock, Frederick Nash, jr	New York	June 20, 1927	18	5
66	Kunkle, George Owen	Indiana	July 1, 1927	17	6
205	Kurtz, Thomas Richardson, jr	At large (Pres.)	June 13, 1927	17	11
188	Lamb, Joseph Bentley	Mississippi	June 16, 1927	18	4
145	Langdon, Richard Henry	Illinois	June 13, 1927	19	0
244	Larson, Harold Isidor	Minnesota	June 30, 1927	19	2
251	Lawrence, Sidney Jack	New York	June 14, 1927	18	7
38	Lay, James Thomas	Missouri	do	18	5
126	Leeper, Harold Burton	Washington	June 30, 1927	18	1
130	Lefavour, William Robert	Massachusetts	June 13, 1927	17	7
222	Leon, Harry Stanley	do	do	19	6
268	Leverton, Joseph Wilson, jr	Maryland	July 5, 1927	18	5
109	Lewellen, Bafford Edward	Minnesota	June 23, 1927	17	9
34	Lewis, Neilson Wilde	Missouri	June 14, 1927	16	7
245	Lief, Sam Albert	do	do	19	7
417	Lillis, Burton Cook, jr	Montana	June 21, 1927	18	1
74	Lizberg, Carl Alfred	Oregon	June 16, 1927	19	4
85	Lockwood, Robert Elmore	Massachusetts	Aug. 23, 1927	19	2
233	Longton, Ernest William	Pennsylvania	June 15, 1927	19	1
215	Lucas, Carlton Charles	Indiana	do	19	10
335	Lyon, Hylan Benton	Kentucky	June 13, 1927	17	4
346	Lytle, Eugene Smith, jr	Missouri	June 21, 1927	18	1
120	MacDonald, Donald John	Pennsylvania	June 15, 1927	18	11
305	MacDonald, Luther Duncan	Wyoming	June 15, 1926	19	5
111	MacKenzie, George Kenneth, jr	New York	July 19, 1927	17	2
390	Mackert, Robert William	Illinois	June 29, 1927	19	10
283	Madden, George Bernard	California	June 14, 1927	18	4
410	Maloney, John Laurence	New York	do	19	11
645	Marshall, Elliott Eugene	Maine	June 13, 1927	19	3
234	Martin, Marshall Tevis	Indiana	June 21, 1927	17	9
446	Massey, Forsyth	Kansas	June 15, 1927	20	0
299	Massingill, Russell Lawton	Florida	June 16, 1927	19	8
*317	Mathers, Albert Lowell	Nebraska	June 23, 1927	18	6
290	Mathews, Jerry Antle, jr	Indiana	July 5, 1927	17	7
*15	McAfee, Jesse Stuart	Texas	June 27, 1927	17	6
193	McAllister, Frank Chambers, jr	Mississippi	June 13, 1927	19	7

second year of their academic course, 480 members, June, 1929—Continued

Sea service in practice ships		Engineering and aeronautics	Mathematics	Electrical engineering and physics	English	Languages	Aptitude for the service	Aggregate second year
Months	Days	Maximum						
		32	56	28	32	24	28	200
2	21	23.24	50.33	24.01	21.80	17.01	22.05	158.44
2	21	24.28	39.41	19.58	23.88	17.31	22.82	147.28
2	21	24.76	36.54	19.76	25.92	17.10	24.78	148.86
2	21	22.68	39.76	19.09	22.20	16.62	24.43	144.78
3	23	26.00	35.84	18.44	21.96	16.47	22.96	141.67
2	21	21.24	37.31	19.08	23.88	17.61	22.68	141.80
2	21	21.16	36.75	18.50	23.04	16.20	24.29	139.94
2	21	24.52	41.02	21.48	25.60	18.27	22.96	153.85
2	21	24.16	41.16	21.70	26.08	18.15	23.10	154.35
2	21	23.56	39.06	19.76	24.88	17.13	24.50	148.89
1	12	24.88	42.35	22.09	24.60	18.12	22.40	154.44
2	21	22.24	36.96	18.57	22.44	16.62	22.47	139.30
2	21	21.88	35.63	18.59	24.92	15.87	22.61	139.50
2	21	26.36	43.33	22.02	24.64	19.08	22.68	158.11
2	21	21.76	37.87	19.02	21.20	16.11	21.91	137.87
2	21	22.76	39.83	19.75	23.68	18.60	24.01	148.63
2	21	22.44	36.40	18.73	24.32	17.19	23.94	143.02
2	21	23.92	38.43	19.99	23.56	16.41	24.57	146.88
2	21	21.76	40.04	19.66	24.28	17.13	22.12	144.99
0	0	27.76	47.67	23.96	25.20	20.58	25.27	170.44
2	21	26.00	47.11	23.83	23.56	17.88	23.59	161.97
2	21	24.28	42.91	20.87	22.36	17.67	22.89	150.98
2	21	23.76	42.56	19.64	25.08	17.70	23.45	152.19
2	21	23.68	43.82	20.43	23.96	18.66	24.15	154.70
2	21	24.52	37.87	19.69	24.68	17.25	24.36	148.37
2	10	22.32	38.57	20.69	25.32	18.36	22.82	148.08
2	21	27.40	46.13	23.52	24.96	19.08	24.08	165.17
1	23	25.24	44.03	22.31	23.92	19.17	21.70	156.37
2	21	24.32	40.67	21.97	24.76	21.12	23.31	156.15
2	21	23.52	41.58	20.44	23.68	17.67	22.75	149.64
2	21	21.84	38.50	20.38	25.56	18.09	22.96	147.33
2	21	24.76	41.44	22.58	26.00	20.76	22.54	158.08
2	21	26.08	48.65	23.32	24.88	21.06	21.91	165.90
2	21	25.16	40.53	20.92	22.44	16.77	22.54	148.36
2	21	22.96	36.33	18.35	23.56	15.75	23.10	140.05
2	21	24.84	45.43	22.24	24.32	20.85	23.80	161.48
2	21	23.72	43.68	22.66	26.68	21.18	22.75	160.67
1	23	23.04	41.09	20.09	23.92	17.25	23.52	148.91
2	21	23.56	41.44	20.69	22.84	16.53	25.06	150.12
2	21	25.16	37.66	20.00	22.44	16.80	21.98	144.04
2	21	23.08	36.54	18.41	23.20	17.16	24.99	143.38
2	21	23.96	43.12	22.28	24.28	19.62	23.59	156.85
2	24	24.04	38.43	20.96	23.36	15.66	23.17	145.62
2	21	25.60	39.90	21.05	26.72	19.56	24.99	157.82
2	21	22.76	36.05	19.33	23.16	17.31	22.78	141.39
2	21	23.56	38.85	20.41	25.32	18.42	20.16	146.72
2	21	21.68	35.70	18.77	23.32	16.77	24.22	140.46
2	21	22.20	35.91	19.94	26.68	18.81	23.87	147.41
2	21	21.68	36.19	19.10	22.28	16.23	23.66	139.14
2	21	21.32	35.42	19.32	23.72	15.69	22.82	138.29
2	21	24.00	39.83	19.70	23.16	16.56	22.68	145.93
2	21	23.36	37.45	20.83	23.36	16.02	24.08	145.10
2	21	22.96	38.36	19.31	23.20	19.17	23.31	146.31
2	21	24.32	48.79	25.42	25.84	22.05	23.94	170.36
2	21	23.00	39.83	20.72	25.56	18.87	23.66	151.64

Merit roll of the midshipmen of the present second class (class of 1931), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission	
				Years	Months
420	McCain, John Sidney, jr.....	At large (Pres.).....	June 21, 1927	16	5
355	McCracken, James Dudley.....	Illinois.....	June 15, 1927	19	10
464	McCracken, Reginald Rudolph.....	Iowa.....do.....	do.....	18	11
198	McCuddy, William Ross.....	Kentucky.....do.....	do.....	18	0
172	McDonald, Edwin Anderson.....	Oregon.....	June 30, 1927	19	7
445	McFarlane, Douglas James.....	Wisconsin.....	Sept. 1, 1927	18	11
452	McKaig, William Vaughn.....	New Jersey.....	June 16, 1927	18	7
242	McKay, Baxter Morrison.....	Florida.....	June 21, 1927	17	5
24	McKee, Francis Alvin.....	Ohio.....	June 20, 1927	19	6
129	McKinney, Charles William.....	Indiana.....	June 13, 1927	18	11
280	McLaughlin, Harold Vincent.....	New York.....	June 14, 1927	18	7
383	McMahan, William Alva.....	Illinois.....do.....	do.....	18	8
211	McMahon, Bernard Francis.....	Ohio.....	July 18, 1927	19	11
441	McManus, George Boles.....	Connecticut.....	Aug. 5, 1927	17	2
262	McMartin, James McIntyre.....	New York.....	June 27, 1927	17	5
132	Meola, Vincent James.....	Rhode Island.....	June 20, 1927	18	11
65	Merkle, Francis Baldwin.....	Ohio.....	June 15, 1927	19	9
183	Metsger, Alfred Bowne.....	New Jersey.....	June 28, 1927	16	8
144	Miles, Lion Tyler.....	Virginia.....	June 15, 1927	17	4
387	Miller, Justin Albert.....	Montana.....	June 14, 1927	17	8
60	Miller, Norman Mickey.....	North Carolina.....	June 30, 1927	19	5
125	Miner, John Odgers.....	Missouri.....	June 14, 1927	16	11
37	Moeller, Henry George.....	Nebraska.....	Aug. 8, 1927	19	4
433	Molumphy, George Garvie.....	Connecticut.....	June 30, 1927	19	4
289	Moore, John Robert.....	Ohio.....	June 28, 1927	19	7
143	Moore, Luther Samuel.....	Massachusetts.....	June 17, 1927	19	9
459	Moring, William Edwin.....	Mississippi.....	June 22, 1926	17	7
386	Morris, Daniel Small.....	California.....	June 29, 1927	19	10
462	Morrow, Charles Allison, jr.....	Maryland.....	June 15, 1927	18	0
167	Morrow, William John, jr.....	Pennsylvania.....	June 14, 1927	18	11
404	Moses, McDonald.....	At large (Pres.).....	June 16, 1926	16	6
336	Moss, Clifton Revell.....	Indiana.....	June 16, 1927	19	1
353	Motes, Jesse Hogan, jr.....	South Carolina.....	June 20, 1927	19	9
351	Mott, Carleton Edgar.....	Connecticut.....	June 15, 1927	19	2
29	Moulton, Horace Douglass.....	Kansas.....	June 21, 1927	17	9
139	Mullins, Henry, jr.....	South Carolina.....do.....	do.....	19	5
28	Mumford, Stanley.....	New Jersey.....	June 16, 1927	19	5
365	Murphy, James Albert.....	Texas.....	June 21, 1927	20	3
428	Myer, John Aden.....	Kansas.....do.....	do.....	18	10
413	Myers, Horace.....	Idaho.....	June 15, 1927	19	3
407	Myhre, Floyd Bertram Thomas.....	Minnesota.....	June 21, 1927	20	2
42	Needham, Ray Cannon.....	Utah.....	June 29, 1927	18	10
356	Nelson, Raymond Henry.....	California.....	July 1, 1927	20	2
149	Nelson, Samuel Edward.....	Pennsylvania.....	June 18, 1927	18	10
436	Nelson, Samuel Tyler, jr.....	Montana.....	June 30, 1927	19	3
438	Nolan, Rathel Linwood, jr.....	Mississippi.....	June 29, 1927	18	9
398	Norvell, William Clanton.....	Georgia.....	June 30, 1927	19	5
399	O'Brien, Joseph Emmett.....	Montana.....	June 16, 1927	18	3
465	O'Connor, Michael Galligan.....	Louisiana.....	June 13, 1927	16	8
369	O'Neill, Edward Joseph.....	New York.....	July 15, 1927	19	3
300	O'Toole, James Michael.....	West Virginia.....	June 20, 1927	19	11
174	Owens, Seymour Dunlop.....	At large (Pres.).....	June 13, 1927	17	4
376	Palmer, Charles Keith.....	South Carolina.....	June 21, 1927	17	9
dd239	Palmer, George Roberts.....	Missouri.....	June 16, 1927	20	1
168	Pancake, Lee Sylvester.....	Montana.....	June 15, 1927	20	2

second year of their academic course, 480 members, June, 1929—Continued

Sea service in practice ships		Engineering and aeronautics	Mathematics	Electrical engineering and physics	English	Languages	Aptitude for the service	Aggregate second year
Months	Days	Maximum						
		32	56	28	32	24	28	200
2	21	22.24	39.13	18.79	22.72	16.89	20.16	139.93
1	23	22.84	36.47	19.57	21.72	17.88	24.50	142.98
2	21	21.20	36.26	18.34	21.48	15.36	22.68	135.32
2	21	23.32	42.91	20.33	24.24	17.04	23.66	151.50
2	21	23.20	41.37	22.13	25.16	18.09	23.17	153.12
2	21	21.20	36.40	18.02	22.36	16.62	23.73	138.33
2	21	21.64	37.87	18.45	22.00	16.35	21.28	137.59
2	21	21.88	40.95	19.86	23.52	18.87	23.38	148.46
2	21	26.68	45.01	23.53	27.84	20.97	23.45	167.48
2	21	24.60	41.79	21.27	25.64	18.75	24.15	156.20
2	21	22.12	36.75	19.95	24.92	19.29	23.80	146.83
2	21	21.68	37.59	18.51	24.28	16.14	23.45	141.65
2	21	24.36	41.79	20.50	24.52	16.62	22.54	150.33
2	21	23.32	36.61	18.70	21.32	17.82	21.07	138.84
2	21	24.24	40.25	20.31	22.24	20.10	20.37	147.51
2	21	23.92	41.44	20.89	23.84	22.29	23.24	155.62
2	21	25.88	42.28	23.59	26.32	21.15	22.82	162.04
2	21	24.36	47.25	21.05	23.48	16.83	19.67	152.64
2	21	22.92	41.65	20.97	25.44	20.19	23.73	154.90
2	21	22.32	37.66	19.32	22.96	17.13	22.12	141.51
1	23	24.88	43.12	23.22	26.00	20.55	24.78	162.55
2	21	24.36	41.79	21.85	24.64	19.08	24.78	156.50
2	21	24.84	46.27	22.94	25.48	21.33	24.43	165.29
2	21	21.72	35.70	17.61	24.12	16.95	23.10	139.20
2	21	22.52	38.78	19.56	23.96	17.70	23.87	146.39
2	21	24.24	39.76	22.39	25.88	18.21	24.43	154.91
2	21	21.08	35.98	18.09	21.92	15.39	23.73	136.19
2	21	21.80	36.47	18.95	22.92	16.68	24.71	141.53
2	21	21.04	35.56	18.21	21.60	17.04	22.26	135.71
2	21	23.68	39.62	21.09	24.68	20.43	24.01	153.51
5	15	21.48	37.38	18.57	22.72	17.61	22.96	140.72
2	21	22.72	37.38	19.21	23.44	17.25	24.01	144.01
2	21	23.20	38.22	19.69	22.32	16.71	22.89	143.03
2	21	21.60	36.33	19.59	23.36	20.82	21.49	143.19
2	21	25.72	47.25	23.40	26.36	19.23	24.78	166.74
2	21	23.00	45.22	22.73	24.60	16.80	22.96	155.31
2	21	26.68	47.74	23.94	26.60	17.55	22.29	166.80
2	21	20.76	36.54	18.55	21.84	20.28	24.57	142.54
2	21	21.12	35.70	18.98	22.00	17.01	24.64	139.45
1	23	23.04	37.17	19.23	22.12	17.07	21.70	140.33
2	21	21.08	36.19	18.62	23.12	18.12	23.38	140.51
2	21	28.00	47.39	22.73	24.52	17.94	24.08	164.66
2	21	22.84	38.85	19.08	23.72	16.38	22.05	142.92
2	21	23.32	43.75	21.25	24.92	17.37	23.94	154.55
2	21	21.16	37.38	19.04	23.52	16.26	21.63	138.99
2	21	22.56	35.98	18.67	21.64	16.02	24.08	138.95
2	21	21.12	36.96	18.29	22.28	18.69	23.66	141.00
2	21	23.36	36.12	19.28	23.60	16.56	22.05	140.97
2	21	21.36	35.28	18.60	22.92	15.51	21.63	135.30
2	21	21.36	38.64	19.69	23.16	17.25	22.12	142.22
2	21	23.08	39.76	20.09	23.84	16.89	22.26	145.92
2	21	23.32	40.67	21.73	24.96	18.69	23.73	153.10
2	21	21.84	37.31	19.33	23.00	16.65	23.80	141.93
2	21	23.80	39.83	19.70	24.44	16.56	24.36	148.69
2	21	23.04	41.51	22.00	26.32	16.86	23.73	153.46

Merit roll of the midshipmen of the present second class (class of 1931), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission	
				Years	Months
<i>w</i>	Paradzinski, Alexander Joseph.....	Michigan.....	June 17, 1927	17	3
323	Parham, John Calhoun, jr.....	At large (Pres.).....	June 13, 1927	19	3
46	Parker, Robert Elmer.....	Pennsylvania.....	June 21, 1927	18	1
460	Parsons, William King.....	Nevada.....	July 11, 1927	18	1
358	Payne, Thomas Benjamin.....	Virginia.....	June 20, 1927	18	0
*13	Payson, Harold, jr.....	At large (Pres.).....	Sept. 19, 1927	18	8
285	Pearce, Hepburn Alcott.....	Massachusetts.....	June 29, 1927	19	6
154	Peckham, George Edward.....	Iowa.....	June 17, 1927	18	7
43	Peery, George Atwood.....	Virginia.....	June 21, 1927	19	11
442	Peters, Francis Marion, jr.....	West Virginia.....	June 15, 1927	19	5
152	Peters, James McClellan.....	Louisiana.....	June 13, 1927	16	10
363	Peterson, Richard Ward.....	Minnesota.....	June 21, 1927	18	6
430	Phifer, Thomas Carson.....	South Carolina.....	June 20, 1927	18	7
<i>w</i>	Phillips, Charles Edwin.....	Iowa.....	July 6, 1927	18	2
32	Pierce, Ransom Allan.....	Arkansas.....	June 14, 1927	18	4
g122	Pihl, Frederick Wilson.....	Massachusetts.....	Aug. 18, 1927	18	8
2466½	Porter, Samuel Henry.....	Pennsylvania.....	June 16, 1926	18	4
338	Pottinger, William Knowles.....	Texas.....	June 20, 1927	18	3
*8	Powell, George Neff.....	Pennsylvania.....	July 29, 1927	18	3
218	Powell, Peter George, jr.....	Kentucky.....	June 15, 1927	17	8
*7	Prescott, John Guthrie Foster.....	California.....	June 14, 1927	18	5
372	Putnam, Frank Rowell.....	Minnesota.....	June 13, 1927	18	11
206	Quilter, Edward Sinon.....	New York.....	July 11, 1927	17	10
83	Railsback, Edward Forrest.....	Kansas.....	July 9, 1927	19	4
120	Ramage, Lawson Paterson.....	Vermont.....	June 20, 1927	18	5
41	Raysbrook, Frank George.....	Pennsylvania.....	June 15, 1927	18	5
*5	Reed, Allan Lorentz.....	Arkansas.....	June 13, 1927	19	1
256	Reese, John Spencer.....	New York.....	June 29, 1927	18	10
135	Renken, Henry Algernon.....	Virginia.....	June 21, 1927	19	4
102	Reynolds, James Richard Zinck.....	Tennessee.....	July 6, 1927	18	6
293	Richardson, Alvin Franklin.....	Mississippi.....	Sept. 19, 1927	20	5
340	Ritchie, Clark Alexander.....	New York.....	June 14, 1927	19	3
*3	Rivero, Horacio, jr.....	Porto Rico.....	June 20, 1927	17	1
75	Robbins, Berton Aldrich, jr.....	Massachusetts.....	June 22, 1927	18	10
127	Robertson, Edward Livingston, jr.....	New York.....	July 5, 1927	17	9
49	Roeder, Bernard Franklin.....	Illinois.....	June 15, 1927	16	4
221	Roessler, Anthony Carroll.....	Ohio.....	June 21, 1927	18	6
*6	Rogers, Thomas Woodson.....	Wisconsin.....	Aug. 30, 1927	19	3
30	Romberg, Albert Kenneth.....	Iowa.....	June 15, 1927	19	2
378	Roscoe, David Livingston, jr.....	At large (Pres.).....	June 13, 1927	19	9
202	Rouse, Leon Matheny.....	Montana.....	June 30, 1927	19	5
98	Russell, Harold Berton.....	Michigan.....	June 13, 1927	19	2
316	Ryon, William Mendinhall.....	Pennsylvania.....	June 29, 1927	19	3
422	Sampson, Robert Roy.....	Connecticut.....	June 13, 1927	20	0
451	Sanns, Nickolas James.....	New Jersey.....	June 15, 1927	17	4
115	Schoeni, Walter Paul.....	Oregon.....	June 14, 1927	19	3
61	Schultz, George Franklin.....	Indiana.....	June 15, 1927	19	3
266	Scrivner, Frank Herman.....	Texas.....	July 1, 1927	18	9
r292	Sefesik, Louis Joseph.....	New York.....	July 11, 1927	18	5
421	Seidel, Harry Edward, jr.....	Maryland.....	July 5, 1927	17	11
171	Sell, Charles Francis.....	Pennsylvania.....	June 16, 1927	17	11
320	Shaffer, Leland Griffith.....	do.....	June 21, 1927	18	4
73	Sharp, Alfred Elliott, jr.....	Maryland.....	do.....	18	3
182	Shields, Ward Thornton.....	Pennsylvania.....	June 16, 1927	17	2
247	Shoemaker, Cassin Thomson.....	Ohio.....	June 14, 1927	18	6

second year of their academic course, 480 members, June, 1929—Continued

Sea service in practice ships		Engineer- ing and aeronautics	Mathe- matics	Electrical engineering and physics	English	Languages	Aptitude for the serv- ice	Aggregate second year
Months	Days	Maximum						
		32	56	28	32	24	28	200
2	21	(a)	(a)	(a)	(a)	(a)	-----	-----
2	16	23.00	38.08	18.69	25.76	16.47	22.61	144.61
2	21	27.04	47.81	23.02	24.40	17.67	24.29	164.23
2	21	21.96	34.44	17.70	21.68	16.17	24.08	136.03
2	21	22.80	38.22	20.14	23.24	16.80	21.63	142.83
2	21	25.44	48.30	24.31	26.20	21.27	24.99	170.51
2	21	22.72	40.04	21.52	24.36	16.68	21.21	146.53
2	21	24.36	41.79	21.30	26.60	18.33	21.98	154.36
2	21	25.36	48.51	23.89	25.60	18.24	22.96	164.56
2	21	21.76	37.66	18.95	22.60	16.35	21.35	138.67
2	21	22.12	42.35	21.19	25.88	18.66	24.22	154.42
1	23	22.32	36.75	18.58	22.68	17.31	25.06	142.70
2	21	21.04	36.82	18.91	24.00	16.02	22.54	139.33
2	21	(a)	(a)	(a)	(a)	(a)	21.98	-----
3	21	25.80	49.00	24.45	25.24	17.40	24.15	166.04
2	21	24.96	43.05	22.21	23.64	18.33	24.43	156.62
5	15	21.40	36.47	17.80	21.00	15.87	21.56	134.10
2	21	22.40	37.94	21.67	21.96	16.20	23.66	143.83
2	21	26.88	47.25	23.92	28.60	20.40	25.83	172.88
2	21	23.60	41.09	20.62	24.16	17.04	23.38	149.89
2	21	28.64	48.09	24.55	26.60	21.87	23.73	173.48
2	21	22.84	36.19	19.02	23.64	17.34	23.03	142.06
2	21	24.00	41.72	20.46	22.92	20.91	20.93	150.94
2	21	25.72	45.43	22.46	25.52	17.82	23.94	160.89
2	21	24.96	42.49	22.02	25.40	18.60	23.38	156.85
2	21	26.04	45.01	22.62	26.12	20.31	24.71	164.81
2	21	26.84	49.28	24.48	28.16	22.44	23.73	174.93
2	21	21.56	41.72	21.30	22.12	18.57	22.54	147.81
2	21	25.08	41.72	20.92	24.60	18.48	24.78	155.58
2	21	26.32	46.41	22.29	22.84	17.79	22.75	158.40
2	21	22.80	35.42	19.66	25.52	17.25	25.55	146.20
2	21	24.12	38.36	19.73	21.24	17.49	22.82	143.76
2	21	26.24	49.70	23.96	27.84	23.97	24.57	176.28
2	21	25.40	42.00	22.32	26.12	20.79	24.78	161.41
2	21	24.24	40.95	21.08	25.80	21.75	22.54	156.36
2	21	27.80	47.74	23.16	23.68	18.27	22.75	163.40
2	21	26.20	38.57	20.64	24.24	17.37	22.68	149.70
2	21	28.32	53.97	24.29	26.48	17.49	23.31	173.86
2	21	27.32	48.51	22.97	25.00	17.73	25.06	166.59
2	21	22.48	35.70	19.27	24.72	16.50	23.17	141.84
2	21	21.88	42.35	20.65	23.76	18.15	24.29	151.08
2	21	25.88	43.82	21.67	24.16	19.95	23.03	158.51
2	21	21.60	37.94	20.28	23.16	17.91	24.22	145.11
2	21	22.28	37.17	18.57	22.48	15.75	23.52	139.77
2	21	21.76	36.54	19.08	21.96	16.02	22.33	137.69
2	10	25.72	41.16	21.97	25.32	18.84	24.43	157.44
2	21	24.04	44.03	22.51	26.48	20.37	25.06	162.49
2	21	22.48	39.34	20.52	23.52	20.88	20.65	147.39
2	21	23.80	38.43	20.66	22.96	18.21	22.19	146.25
2	21	21.16	35.84	18.72	23.52	18.54	22.12	139.90
2	21	24.16	39.27	21.39	24.88	20.49	22.96	153.15
2	21	22.20	37.24	19.56	24.84	16.71	24.29	144.84
2	21	27.00	46.55	22.28	25.00	17.46	23.31	161.60
2	21	22.52	45.01	20.60	21.84	19.59	23.10	152.66
1	27	23.00	41.58	20.69	22.52	18.18	22.19	148.16

Merit roll of the midshipmen of the present second class (class of 1931), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission	
				Years	Months
116	Shuey, Clifford Henry	Illinois	June 30, 1927	19	2
179	Sieglaft, William Bernard	California	June 13, 1927	18	11
195	Sisko, William John	Michigan	June 21, 1927	19	11
326	Slater, Stanley John	Massachusetts	June 16, 1927	19	5
302	Smith, Andrew Jackson	New York	June 30, 1927	19	10
175	Smith, Curtis Everett	Mississippi	do	19	8
444	Smith, Julius Elbridge, jr.	Nevada	June 22, 1926	18	6
208	Smith, James Thomas	Tennessee	June 21, 1927	18	8
392	Smith, Norman Ernest	Wyoming	June 20, 1927	18	6
68	Smith, Ronald Kenneth	Iowa	June 22, 1927	18	5
288	Snow, John Lawrence	Alabama	June 15, 1927	18	1
123	Soucek, Victor H.	Oklahoma	July 15, 1927	18	10
349	South, Jerry Curtis, jr.	Arkansas	July 5, 1927	17	7
384	Stafford, Arthur Edward	Pennsylvania	June 21, 1927	19	4
79	Stauffer, Jack Bellamy	Colorado	June 20, 1927	18	0
274	Steel, Robert Justin	Delaware	June 22, 1927	19	1
81	Steele, Marcus Goldaine	California	June 30, 1927	17	7
226	Steele, Richard Clarke	Illinois	June 15, 1927	18	3
136	Steffanides, Edward Frank, jr.	Wisconsin	June 22, 1927	19	0
189	Steinke, Frederic Samuel	Illinois	June 30, 1927	19	11
364	Stewart, Andrew Pat	Georgia	June 15, 1927	17	3
327	Stewart, Walter Jones	New Jersey	June 30, 1927	19	7
330	Stieler, Roland Emil	Texas	June 20, 1927	20	3
93	Stone, George Roben	Michigan	July 14, 1927	17	8
308	Straub, Charles Teddy	Colorado	June 15, 1927	19	5
141	Stromback, Philip Christian	Pennsylvania	June 20, 1927	17	6
311	Stuart, Daniel Alfriend	Virginia	Aug. 8, 1927	19	11
399	Swain, Joseph Blount	North Carolina	June 21, 1927	17	7
192	Swisher, Leonzo Nelson	Idaho	June 30, 1927	19	9
96	Tatom, Eugene	Florida	June 28, 1927	18	10
391	Taxis, Samuel Gibbs	Massachusetts	July 5, 1927	18	0
26	Taylor, Robert Lee	Michigan	June 16, 1927	16	8
59	Tenney, Joseph Fosdick	Massachusetts	Aug. 10, 1927	16	11
199	Theobald, Robert Alfred, jr.	California	June 13, 1927	16	9
138	Thomas, Willis Manning	do	June 17, 1927	19	9
322	Thompson, Warren Ronald	South Dakota	July 5, 1927	19	11
162	Thorn, William Alvah	Maryland	June 13, 1927	19	10
374	Thornton, Joseph Thomas, jr.	New York	June 23, 1927	19	1
w	Threlkel, Frank Hays	Kentucky	July 20, 1927	17	4
194	Torgerson, Theodore Adolph	Minnesota	June 21, 1927	20	1
454	Toth, Joseph Charles	New Jersey	June 20, 1927	20	0
435	Trenholme, Edward Pinder	Missouri	June 30, 1927	18	10
254	Tripi, Ignatius Nicholas	New York	June 15, 1927	19	2
432	Tucker, Alfred Bland, III	Virginia	June 23, 1927	17	6
*1	Tyra, Tom Donald	Minnesota	June 16, 1927	19	10
21	Uehling, Gordon Alexander	Wisconsin	July 11, 1927	17	11
252	Van Mater, Schermerhorn	Indiana	June 21, 1927	18	1
259	Vaughn, Charles Samuel	Kentucky	July 14, 1927	19	10
*4	Veasey, Alexander Craig	New Jersey	June 13, 1927	18	10
140	Volk, Louis Frank	Indiana	June 15, 1927	18	2
396	Vredenburg, James Brinckerhoff	Virginia	June 30, 1927	19	4
197	Wackwitz, Donald Newman	Massachusetts	do	19	4
275	Walker, Robert Power	California	Aug. 30, 1927	19	6
367	Walker, Thomas Newell	Tennessee	July 8, 1926	20	1
303	Wallace, Ford Llewellyn	Ohio	June 30, 1927	19	7

second year of their academic course, 480 members, June, 1929—Continued

Sea service in practice ships		Engineering and aeronautics	Mathematics	Electrical engineering and physics	English	Languages	Aptitude for the service	Aggregate second year
Months	Days	Maximum						
		32	56	28	32	24	28	200
2	21	25.00	43.05	20.87	25.72	19.53	23.24	157.41
2	21	23.60	38.85	21.38	26.28	17.25	25.45	152.81
1	23	24.96	39.41	21.82	24.24	18.21	22.96	151.60
2	21	22.04	37.31	19.82	24.84	17.46	22.96	144.43
2	21	22.04	37.73	19.50	25.04	17.31	24.15	145.77
2	21	23.08	43.82	20.84	24.68	17.85	22.82	153.09
5	15	22.28	37.80	18.76	21.68	17.01	20.86	138.39
2	21	23.40	38.22	20.15	26.28	19.23	23.45	150.73
2	21	24.24	37.24	19.55	22.08	17.07	21.07	141.25
2	21	25.16	44.66	22.28	26.28	18.60	24.92	161.90
2	21	24.58	38.29	20.85	23.20	17.64	21.84	146.40
2	21	25.60	43.19	22.85	22.36	18.93	23.66	156.59
2	21	22.68	36.05	19.22	24.24	17.82	23.31	143.32
2	21	22.52	40.81	18.48	22.20	15.90	21.70	141.61
2	21	26.72	42.70	21.79	26.24	21.03	22.68	161.16
2	21	21.84	39.62	19.73	24.60	17.70	23.45	146.94
2	21	25.68	45.15	22.20	24.64	20.55	22.82	161.04
2	21	22.64	38.50	20.19	24.52	20.61	22.89	149.35
1	12	26.60	40.32	21.27	24.00	18.27	24.99	156.45
2	10	23.76	39.13	22.96	23.44	19.56	23.31	152.16
2	21	20.96	38.01	18.77	23.44	18.60	22.89	142.67
2	21	23.56	39.76	19.84	22.72	16.41	22.12	144.41
2	21	22.20	40.67	19.86	21.76	16.11	23.59	144.19
2	21	24.48	46.55	22.83	23.76	20.25	21.21	159.08
2	21	23.64	37.03	19.22	22.88	17.37	25.34	145.48
2	21	26.04	42.91	20.70	23.92	17.91	23.66	155.14
2	21	23.44	37.24	20.29	22.76	16.92	24.71	145.36
2	21	21.44	36.47	18.83	23.48	16.74	24.01	140.97
2	21	23.64	39.27	21.65	25.52	18.42	23.24	151.74
2	21	25.12	44.94	22.45	25.44	18.06	22.96	158.97
2	21	22.44	36.47	20.13	22.72	16.56	22.96	141.28
2	21	26.52	45.78	22.90	27.00	20.43	24.43	167.09
2	21	26.04	44.59	23.40	24.28	19.08	25.34	162.73
2	21	25.40	41.72	20.79	23.04	16.59	23.94	151.48
2	21	23.84	41.37	21.49	24.88	19.08	24.71	155.37
2	21	22.28	37.24	18.84	23.84	18.18	24.29	144.67
2	21	24.84	43.40	20.84	22.28	17.28	25.06	153.70
2	21	22.48	36.61	19.02	22.60	16.92	24.36	141.99
2	21						23.66	
1	23	22.80	38.50	20.86	25.44	18.06	25.97	151.63
1	23	21.08	35.21	18.06	21.24	17.82	23.94	137.35
2	21	22.56	35.84	19.30	22.36	16.20	22.75	139.01
2	21	21.80	37.80	19.51	25.16	19.98	23.66	147.91
2	21	21.88	36.82	18.45	22.32	16.56	23.24	139.27
1	23	30.76	53.13	26.08	27.12	21.12	23.17	181.38
2	21	27.96	47.11	23.82	27.64	18.30	23.80	168.63
2	21	24.88	39.97	20.06	23.72	17.37	22.05	148.05
2	21	24.68	40.88	20.64	22.40	16.65	22.33	147.58
2	21	27.64	50.19	24.43	27.44	20.61	25.55	175.86
2	21	23.68	43.26	22.64	23.80	18.72	23.17	155.27
2	21	22.20	37.59	18.69	22.96	16.20	23.38	141.02
2	21	24.76	41.30	20.66	24.28	17.22	23.31	151.53
2	21	22.36	37.38	19.36	25.40	18.51	23.87	146.88
3	9	21.36	37.24	19.18	25.04	16.65	23.03	142.50
2	21	21.80	37.59	19.92	23.76	17.94	24.71	145.72

Merit roll of the midshipmen of the present second class (class of 1931), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission	
				Years	Months
357	Walpole, Kinloch Chafee.....	Rhode Island.....	June 30, 1927	19	7
246	Warman, Nathaniel Ewing.....	Pennsylvania.....	June 16, 1927	19	10
48	Weatherwax, Hazlett Paul.....	Hawaii.....	June 27, 1927	19	8
47	Webster, John Alden.....	New York.....	June 14, 1927	18	2
339	Weiler, James Buchanan.....	Pennsylvania.....	June 16, 1927	18	5
180	Weir, Frederick Utter.....	Rhode Island.....	June 21, 1927	19	4
219	Werts, Charles Luther.....	Indiana.....	do.....	19	2
225	Wheland, Karl Raymond.....	Ohio.....	June 18, 1927	19	9
206	White, John Alexander.....	Indiana.....	June 21, 1927	18	3
460	White, Robb, III.....	Georgia.....	do.....	18	0
397	White, Zebulon Lewis, jr.....	Texas.....	June 14, 1927	18	11
333	Wickens, Justin Leo.....	Indiana.....	June 14, 1926	19	10
217	Wier, Henry Robert.....	Massachusetts.....	June 27, 1927	18	11
444½	Wieseman, Frederick Leonard.....	Wisconsin.....	July 2, 1927	19	4
232	Wilber, Donald Taylor.....	Michigan.....	June 27, 1927	18	0
165	Wilbur, Robert Milton.....	Missouri.....	June 13, 1927	17	1
309	Will, Prentis King.....	New Jersey.....	June 15, 1927	19	7
63	Williams, George Kirtley.....	Utah.....	do.....	19	4
291	Williams, Henry, jr.....	Virginia.....	June 13, 1927	17	0
223	Williams, Jack Bercau.....	Pennsylvania.....	July 22, 1927	17	1
118	Williams, Lowell Windfield.....	Indiana.....	June 13, 1927	19	9
187	Williams, Russell Champion.....	Virginia.....	June 20, 1927	18	4
415	Williamson, Francis Thomas.....	Rhode Island.....	June 29, 1927	20	2
385	Wilson, Albert H, jr.....	Idaho.....	June 15, 1927	19	1
133	Wilson, Arthur LeLong.....	New Jersey.....	July 5, 1927	18	3
224	Wilson, George Speakman.....	Pennsylvania.....	do.....	16	9
281	Wirtz, Peyton Louis.....	Maryland.....	June 18, 1926	19	5
84	Wood, James Marshall.....	Virginia.....	June 14, 1927	19	8
394	Wood, Lester Orin.....	Washington.....	June 20, 1927	17	5
359	Woodaman, Ronald Joseph.....	Massachusetts.....	June 29, 1927	19	10
457	Woods, William Power.....	South Carolina.....	July 6, 1927	18	3
178	Wright, Douglas Gordon, jr.....	New Mexico.....	June 17, 1927	19	8
22	Wright, Edward Alvey.....	Virginia.....	July 5, 1927	18	6
306	Wright, Frederick Williston, jr.....	New Jersey.....	Aug. 8, 1927	20	1
213	Wright, Sinclair Best.....	Oregon.....	June 15, 1927	18	8
412	Wright, Walter Raymond.....	Ohio.....	Aug. 11, 1927	19	8
106	Wulff, John Thayer.....	Illinois.....	June 20, 1927	18	10
287	Yancey, Evan White.....	Kentucky.....	June 16, 1927	19	10
142	Young, Andrew Lee, jr.....	District of Columbia.....	June 15, 1927	19	5
201	Zuntag, Alexander Andrew.....	New York.....	June 21, 1926	19	10

second year of their academic course, 480 members, June, 1929—Continued

Sea service in practice ships		Engineering and aeronautics	Mathematics	Electrical engineering and physics	English	Languages	Aptitude for the service	Aggregate second year
Months	Days	Maximum						
		32	56	28	32	24	28	200
1	20	22.80	36.96	19.15	23.44	17.76	22.75	142.86
2	21	22.80	38.57	20.02	25.60	17.25	24.01	148.25
2	21	25.48	44.38	23.18	26.88	19.80	23.87	163.59
2	21	25.36	46.34	22.87	25.84	20.16	23.08	163.60
2	21	22.12	36.19	19.42	24.48	18.63	22.96	143.80
2	21	24.04	39.83	22.25	27.24	16.47	22.96	152.79
2	21	23.96	38.36	20.70	25.12	18.39	23.24	149.77
2	21	23.80	40.67	20.17	24.16	15.99	24.57	149.36
2	21	21.56	37.66	20.35	25.56	18.18	22.82	146.13
2	21	21.88	35.84	18.46	22.88	16.32	20.65	136.03
2	21	21.64	36.54	19.03	23.64	16.50	23.66	141.01
5	15	21.84	40.04	19.43	23.20	16.29	23.31	144.11
2	21	22.84	38.85	20.74	23.92	19.47	24.08	149.90
2	21	20.28	35.28	18.93	22.72	16.38	24.78	138.37
2	21	22.88	40.11	19.99	26.52	17.79	21.70	148.99
2	21	25.04	42.28	21.24	24.68	17.73	22.61	153.58
2	21	23.60	37.03	19.79	22.68	18.18	24.15	145.43
2	21	25.56	46.69	23.95	25.76	16.65	23.59	162.20
2	21	23.04	38.85	20.02	23.52	16.83	24.01	146.27
2	21	23.84	40.39	20.75	24.16	17.07	23.38	149.59
2	21	26.64	40.53	21.94	24.64	19.26	24.08	157.09
1	23	22.96	39.90	22.45	25.08	17.67	24.15	152.21
2	21	22.04	37.24	18.91	22.04	15.78	24.15	140.16
2	21	21.96	37.10	19.71	23.36	16.53	22.89	141.55
2	21	23.52	39.83	22.03	25.28	21.63	23.31	155.60
2	21	23.96	39.69	19.01	25.12	19.89	21.77	149.44
5	15	24.92	38.36	18.99	23.76	16.77	24.01	146.81
2	21	23.84	44.17	22.46	25.68	20.01	24.64	160.80
2	21	21.72	38.92	19.93	23.92	17.04	22.68	144.21
2	6	24.24	35.56	19.45	24.76	16.68	22.12	142.81
2	21	20.88	35.56	17.87	22.64	16.02	23.59	136.56
2	21	23.44	42.21	21.33	24.32	18.51	23.10	152.91
2	21	26.12	48.44	24.45	25.08	19.32	24.36	167.77
2	21	24.32	36.75	19.95	25.88	18.69	20.02	145.61
2	21	22.80	39.27	19.95	25.28	18.06	24.85	150.21
2	21	21.12	34.86	19.28	26.60	16.38	22.12	140.36
2	21	26.52	42.42	22.18	25.28	18.57	23.17	158.14
2	21	22.56	42.00	20.18	22.04	17.76	21.98	146.52
2	21	23.80	42.42	21.55	24.92	18.45	23.87	155.01
5	15	22.56	41.86	19.92	24.64	19.53	22.61	151.12

Merit roll of the midshipmen of the present third class (class of 1932)

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission	
				Years	Months
137	Abrahamson, Ernest Percival.....	Maine.....	June 14, 1928	19	4
74	Acker, Frank Clements.....	New Jersey.....	Aug. 2, 1928	18	1
164	Adams, Allen Bond, jr.....	West Virginia.....	July 6, 1928	18	4
491	Adams, Richard Donald.....	Pennsylvania.....	July 5, 1928	19	1
400	Akstull, John Donald.....	New Hampshire.....	Aug. 2, 1928	18	11
197	Allen, Henry Irwin, jr.....	Indiana.....	July 16, 1928	17	9
489	Anderson, John Frailey.....	Ohio.....	July 17, 1928	19	10
388	Andrew, John Douglas.....	California.....	June 15, 1928	17	8
271½	Andrews, Charles Marshall, jr.....	Arkansas.....	June 13, 1927	20	2
48	Archer, Stephen Morris.....	Ohio.....	June 19, 1928	16	11
182	Arthur, Lionel Alexander.....	New York.....	Sept. 27, 1928	18	10
233	Asman, Edwin Charles.....	Ohio.....	June 19, 1928	18	11
142	Asmuth, Walter, jr.....	Wisconsin.....	July 16, 1928	17	6
177	Atkins, Barry Kennedy.....	At large (Pres.).....	June 14, 1928	16	10
462	Backstrom, James Eugene.....	Mississippi.....	June 21, 1928	17	3
291	Bailey, Benjamin Franklin.....	Connecticut.....	June 15, 1928	18	10
106	Bailey, Burl Leonidas.....	Michigan.....	July 10, 1928	18	0
407	Bailey, Claude Fenn.....	Mississippi.....	Aug. 31, 1928	17	9
*22	Bailey, George Winston.....	Utah.....	July 16, 1928	19	9
*16	Baker, Harold Edward.....	Washington.....do.....	.....do.....	19	5
338	Baker, Robert Louis.....	Kentucky.....	Sept. 1, 1928	19	5
445	Baldridge, Harry Alexander, jr.....	New York.....	June 23, 1928	16	10
354	Bandy, Jack Irving.....	Arizona.....	June 15, 1928	17	3
184	Beardslee, George Roscoe.....	Michigan.....	June 14, 1928	19	3
171	Beer, Robert Oakley.....	Nebraska.....do.....	.....do.....	18	2
493	Beers, Charles Eli, jr.....	Mississippi.....	Aug. 31, 1928	20	0
498	Beers, Colwell Edward.....	Missouri.....	July 7, 1928	19	6
463	Bell, Francis Smith.....	Michigan.....	June 18, 1928	20	0
396	Bell, Walter Frank.....	Rhode Island.....	July 6, 1928	19	6
278	Bellinger, George Lieinberger.....	New York.....	June 28, 1928	18	1
4502	Bellinger, William Cotesworth Pinckney, jr.....	South Carolina.....	June 15, 1928	18	11
38	Best, Richard Halsey.....	New Jersey.....	June 14, 1928	18	3
171	Bigaouette, Frank Joseph.....	Minnesota.....	July 6, 1928	19	11
293½	Bigler, James Campbell.....	Ohio.....	July 9, 1928	18	4
326	Billingsley, Ed Baxter.....	Arkansas.....	July 16, 1928	18	1
362	Binns, Jack Alvey.....	California.....	July 2, 1928	19	6
373	Bisson, Robert Omer.....	Illinois.....	July 6, 1928	19	10
261	Bitterman, David Eugene.....	Pennsylvania.....	July 9, 1928	18	0
169	Blair, Richard Hutchings.....	Virginia.....	June 29, 1928	18	0
101	Blaisdell, Norman Earl.....	Massachusetts.....	June 22, 1928	19	6
*13	Bond, Frederick William, jr.....	New York.....	June 28, 1928	20	0
378	Born, Howard Eugene.....	Wisconsin.....	July 6, 1928	18	3
*21	Bowers, Thomas Kent.....	Maryland.....	June 29, 1928	17	5
221	Bowser, Alpha Lyons, jr.....	Pennsylvania.....	July 16, 1928	17	11
501	Boyle, Joseph Hannon.....	Wisconsin.....	Sept. 18, 1928	19	4
215	Brannon, Horace Rupert.....	Alabama.....	June 14, 1928	19	9
157	Brewer, Cyrus.....	Massachusetts.....	July 17, 1928	18	3
387	Brindupke, Charles Frederic.....	California.....	June 22, 1928	19	9
288	Bronson, Frederick Schaffer.....	Connecticut.....do.....	.....do.....	19	8
37	Brown, Lawrence Shepard.....	New York.....	July 9, 1928	16	8
*21½	Brown, Sheldon Willis.....	Pennsylvania.....	July 7, 1928	17	11
36	Brown, William Wheeler.....	Tennessee.....	June 19, 1928	17	11
33	Brumby, Frank Hardeman, jr.....	Georgia.....	June 21, 1928	17	6
*23	Bryan, Louis Allen.....	Kentucky.....	June 14, 1928	19	8

for the first year of their academic course, 528 members, June, 1929

Sea service in practice ships		Engineering and aero-nautics	Mathe-matics	Electrical engineer-ing and physics	English	Languages	Aptitude for service	Aggregate first year
Months	Days	Maximum						
		12	32	16	16	12	12	100
2	24	9.51	23.80	11.92	12.60	10.19	11.43	79.45
2	24	8.47	25.12	12.18	13.40	10.88	11.73	81.78
2	24	9.09	23.44	12.50	13.06	9.48	11.10	78.67
2	24	7.73	20.12	11.60	10.66	7.67	10.86	68.64
2	24	7.88	20.64	11.40	11.94	8.82	11.97	72.65
2	24	8.73	22.04	11.00	12.68	11.28	11.85	77.58
2	24	7.95	20.92	11.10	10.49	7.74	10.83	68.94
2	24	7.93	22.60	11.24	11.86	9.56	9.75	72.94
2	24	8.12	22.92	12.64	11.94	9.63	10.26	75.51
2	24	8.53	27.52	13.18	13.12	9.30	11.67	83.32
5	15	9.05	25.68	12.24	10.92	8.89	11.25	78.03
2	24	8.26	23.08	11.72	12.20	9.54	11.70	76.50
2	24	8.62	25.96	11.26	11.90	9.99	11.58	79.31
2	24	8.90	24.80	11.92	11.60	9.41	11.61	78.24
2	24	8.41	20.96	10.62	10.68	8.76	11.07	70.50
2	24	7.91	22.56	12.22	11.38	9.14	11.85	75.06
2	24	9.49	24.52	13.16	12.26	9.62	11.37	80.42
2	24	8.37	21.20	11.80	11.26	8.41	11.49	72.53
2	24	9.95	26.28	14.66	13.18	11.16	10.92	86.15
2	24	10.75	27.32	14.66	12.68	10.04	11.91	87.36
2	24	9.45	22.96	11.48	10.70	8.07	11.37	74.03
2	24	7.80	21.04	10.38	11.30	8.76	11.82	71.10
2	24	8.33	21.48	11.32	12.18	8.71	11.70	73.72
2	24	8.52	24.00	13.18	11.76	8.80	11.73	77.99
2	24	9.47	24.64	11.92	12.02	8.43	11.94	78.42
0	0	7.88	19.96	10.28	10.94	8.78	10.62	68.46
2	24	7.67	20.76	10.20	10.58	7.88	10.83	67.92
2	24	7.56	21.12	10.04	11.46	8.73	11.58	70.49
2	24	7.89	21.36	11.12	11.10	9.87	11.40	72.74
2	24	7.67	22.80	11.00	12.16	10.13	11.58	75.34
0	0	6.89	18.24	10.40	10.42	7.27	11.85	65.07
2	24	9.79	27.80	12.54	11.94	10.86	11.52	84.45
1	23	8.73	25.16	13.12	11.96	8.47	10.98	78.42
2	24	9.37	22.96	12.02	11.00	7.93	11.70	74.98
2	24	8.26	21.80	11.16	12.56	8.51	11.91	74.20
1	8	7.97	23.56	10.82	11.26	8.99	10.89	73.49
2	24	9.12	21.16	11.46	10.92	8.83	11.91	73.40
2	24	9.15	22.32	12.34	11.12	9.25	11.55	75.73
2	24	8.53	23.60	12.84	12.74	9.30	11.46	78.47
2	24	9.50	23.48	13.30	12.82	9.98	11.46	80.54
2	24	9.65	29.96	13.76	12.56	11.10	10.86	87.89
2	24	7.77	22.76	11.50	10.84	8.75	11.58	73.20
2	24	10.27	27.24	13.78	12.88	10.74	11.61	86.52
2	24	8.48	22.24	12.10	12.90	9.56	11.70	76.98
2	24	7.99	19.80	11.30	11.66	7.70	9.00	67.45
2	24	8.79	23.12	12.40	12.40	8.92	11.49	77.12
2	24	7.86	24.36	11.78	12.80	11.23	10.86	78.89
2	24	9.24	21.04	11.44	10.94	8.64	11.70	73.00
2	24	9.27	22.20	11.76	11.72	8.53	11.61	75.09
2	24	9.11	26.12	13.16	13.48	11.23	11.55	84.65
2	24	9.58	28.48	14.16	13.10	9.28	11.79	86.39
2	24	8.76	27.48	13.94	12.22	10.80	11.55	84.75
2	24	8.99	26.32	12.70	13.94	11.00	11.79	84.90
2	9	11.10	28.56	13.06	12.10	10.00	11.22	86.04

Merit roll of the midshipmen of the present third class (class of 1932), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission	
				Years	Months
451	Bulkeley, Eugene Chester.....	Illinois.....	July 23, 1928	18	6
79	Bull, William Izard.....	North Carolina.....	July 6, 1928	17	0
357	Bunce, Peris Graves.....	New York.....	July 10, 1928	17	3
181	Burdick, Dunbar Graves.....	Oregon.....	July 16, 1928	18	8
183	Burgin, Miller Strange.....	Texas.....	June 21, 1927	17	6
1383	Burks, Jesse Billy.....	Alabama.....	June 25, 1928	19	11
433	Burrowes, Edward Elgin.....	Kansas.....	June 29, 1928	18	7
296	Bush, Horace Peters, jr.....	Pennsylvania.....	July 16, 1928	19	6
391	Byers, William Robert.....	North Carolina.....	June 22, 1928	19	3
61	Caley, Arthur Douglas.....	New York.....	June 28, 1928	20	0
275	Campbell, Herbert John.....	Oregon.....	Aug. 1, 1928	18	10
379	Cann, Philip Winslow.....	Maine.....	July 9, 1928	20	1
351	Caperton, Harry Overton.....	Mississippi.....	July 6, 1928	18	0
488	Carpenter, Truman Ernest.....	Vermont.....	July 16, 1928	19	1
190	Carroll, Daniel Lynn, jr.....	Minnesota.....	July 9, 1928	18	4
254	Carroll, George Nicholas.....	Massachusetts.....	June 21, 1928	20	0
370	Catlett, William Jackson, jr.....	Mississippi.....	June 28, 1928	19	2
265	Chambers, Thomas Edward.....	Tennessee.....	July 17, 1928	19	7
480	Chase, Edgar Griffith.....	Kansas.....	June 29, 1928	17	10
284	Chase, Irwin, jr.....	New Jersey.....	July 16, 1928	16	8
136	Chittenden, John Lester.....	New York.....	June 15, 1928	17	5
168	Clement, James Markland.....	New Hampshire.....	Aug. 31, 1928	19	5
175	Close, Burdette Eugene.....	New York.....	July 16, 1928	18	3
141	Cobb, Clarence Ocumpaugh.....	do.....	June 15, 1928	18	9
455½	Coleman, Earl Stanley.....	California.....	June 29, 1928	18	2
56	Coleman, Herbert McClellan.....	West Virginia.....	June 21, 1928	16	8
47	Coleman, Walter Dan.....	Illinois.....	June 18, 1928	18	3
216	Colley, Thomas Jack.....	New York.....	June 19, 1928	19	5
279	Connaway, Fred.....	Arkansas.....	July 9, 1928	17	6
496	Conway, John Bradford.....	Texas.....	June 20, 1928	18	10
226	Cook, Harry Standish.....	Colorado.....	June 14, 1928	19	5
326	Coombs, Robert Ernest, jr.....	Vermont.....	June 15, 1928	19	7
78	Cope, Alfred Lovell.....	Georgia.....do.....	do.....	18	6
*20	Corry, John.....	Rhode Island.....	Aug. 2, 1928	18	2
274	Corson, George.....	New York.....	June 28, 1928	18	7
151	Counihan, John Lawrence, jr.....	Connecticut.....	June 21, 1928	18	5
190	Cox, William Ruffin.....	North Carolina.....	June 19, 1928	17	2
417	Coxe, Alexander Bacon, jr.....	Missouri.....	July 30, 1928	18	5
123	Craig, James Gray, jr.....	Tennessee.....	July 9, 1928	19	5
105	Craighill, Richard Starr.....	Virginia.....	Aug. 10, 1928	18	11
w	Croghan, John Alvin.....	New York.....	June 22, 1928	19	11
289	Crowley, Dennis Stafford.....	Virginia.....	June 21, 1928	20	1
220½	Dale, Roland Harper.....	Connecticut.....do.....	do.....	18	4
420	Davis, Frank Mandeville.....	Washington.....	June 29, 1928	19	9
218	Davis, Joseph Burton.....	Ohio.....	June 21, 1928	18	9
439	Davis, Thomas William Smith.....	Virginia.....	July 18, 1928	18	4
257	De Long, Henry Clay.....	Maine.....	Aug. 25, 1928	17	10
235	Denig, Robert Livingston, jr.....	Ohio.....	June 18, 1928	18	7
195	Dennett, Mark Edwin.....	Arizona.....	June 15, 1928	19	9
461	Denton, Arthur Austin, jr.....	New York.....	Sept. 1, 1928	19	8
170	DeWitt, John Carroll, jr.....	Georgia.....	July 9, 1928	18	5
473	de Zayas, Hector.....	California.....	Aug. 16, 1928	17	11
255	Dial, Nathaniel Minter.....	South Carolina.....	July 18, 1928	17	4
481	Dibrell, Aquilla Gibbs, jr.....	At large (Pres.).....	June 18, 1928	18	3
167	Dickinson, Albert William.....	do.....	June 14, 1928	16	7

first year of their academic course, 528 members, June, 1929—Continued

Sea service in practice ships		Engineering and aeronautics	Mathematics	Electrical engineering and physics	English	Languages	Aptitude for service	Aggregate first year
Months	Days	Maximum						
		12	32	16	16	12	12	100
2	24	8.25	22.00	10.46	10.32	8.09	11.79	70.91
2	24	8.74	24.60	12.88	12.98	10.38	12.00	81.58
2	24	8.16	22.36	11.28	10.76	9.11	12.00	73.67
1	23	9.35	24.56	11.64	12.06	8.95	11.61	78.17
5	15	8.75	24.64	12.42	11.80	9.37	11.04	78.02
2	24	7.56	21.48	11.90	12.26	7.98	11.85	73.03
2	24	9.13	21.24	10.68	10.74	7.86	11.88	71.53
2	24	8.51	23.28	11.84	11.38	8.31	11.61	74.93
2	24	9.29	20.84	10.82	11.90	8.41	11.61	72.87
2	24	9.59	26.44	12.40	11.64	10.78	11.58	82.43
2	24	8.37	23.92	11.78	11.56	8.02	11.82	75.47
2	24	8.93	20.88	11.12	11.22	9.18	11.85	73.18
2	24	8.03	22.40	12.22	11.42	8.50	11.22	73.79
1	23	10.01	24.56	12.76	11.24	8.66	11.91	79.12
2	24	8.47	23.84	11.78	12.66	9.29	11.70	77.74
2	24	7.81	21.44	11.70	12.68	10.49	11.76	75.88
2	24	8.14	21.84	12.54	11.56	8.15	11.19	73.42
0	0	9.36	23.20	10.92	11.16	9.38	11.61	75.63
2	24	7.91	20.96	10.60	11.78	8.06	10.32	69.63
2	24	8.57	21.36	12.30	11.54	10.09	11.34	75.20
2	24	8.98	24.52	12.62	11.82	9.68	11.85	79.47
2	24	8.70	24.04	12.00	11.64	10.22	11.88	78.48
2	24	8.76	24.64	12.12	12.06	9.66	11.07	78.31
2	24	9.18	25.60	11.58	11.52	9.81	11.64	79.33
0	0	7.89	21.00	11.24	11.38	7.68	11.55	70.74
2	24	9.38	26.80	13.32	12.42	9.11	11.76	82.79
2	9	9.79	25.96	13.42	12.50	9.68	11.79	83.14
2	24	9.81	22.36	12.08	11.98	9.24	11.64	77.11
2	24	8.13	22.80	11.70	11.12	9.77	11.79	75.31
2	24	8.20	20.20	10.34	10.52	8.19	10.80	68.25
2	24	8.19	22.36	11.82	11.68	10.84	11.94	76.83
2	24	8.46	22.44	11.74	11.56	8.36	11.64	74.20
2	24	10.15	25.24	13.24	11.92	9.33	11.76	81.64
2	24	9.22	26.56	13.68	13.90	11.31	12.00	86.67
2	24	8.15	23.56	11.40	11.90	9.31	11.16	75.48
2	24	8.00	25.12	12.98	12.24	9.52	11.16	79.02
2	9	8.65	24.08	10.98	11.96	10.40	11.67	77.74
2	24	9.23	21.96	11.06	10.66	7.97	11.34	72.22
2	24	9.73	24.80	12.68	12.28	8.79	11.64	79.92
2	24	9.65	26.80	11.18	11.42	9.77	11.61	80.43
2	24						8.37	
2	24	8.14	22.56	11.14	12.02	9.96	11.25	75.07
2	24	8.81	23.72	12.24	11.22	9.31	11.76	77.06
2	24	7.80	21.24	10.90	12.32	7.81	12.00	72.07
2	9	8.20	21.44	12.06	13.12	10.29	11.97	77.08
2	24	8.30	21.56	10.82	11.36	8.15	11.04	71.23
1	23	9.20	20.96	11.84	12.22	9.75	11.85	75.82
2	24	9.25	23.52	12.50	11.80	8.44	10.92	76.43
2	24	10.17	24.24	12.06	10.82	8.31	12.00	77.60
2	24	8.01	20.96	11.20	11.60	9.24	9.51	70.52
2	24	8.30	23.92	12.40	12.32	10.35	11.16	78.45
2	24	8.72	21.64	10.60	10.24	7.81	10.86	69.87
2	24	8.82	22.48	11.08	12.06	9.49	11.94	75.87
2	9	7.71	20.92	10.36	11.56	7.91	11.13	69.59
2	24	8.75	24.08	11.66	12.58	9.59	11.85	78.51

Merit roll of the midshipmen of the present third class (class of 1932), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission	
				Years	Months
81	Dimietrijevic, William Joseph	Ohio	June 27, 1928	19	0
280	Dobbs, William Adams	Mississippi	July 2, 1928	19	4
160	Domenech, Juan Paul	Porto Rico	July 9, 1928	19	5
304	Donaldson, Francis, jr.	Pennsylvania	Sept. 1, 1928	20	1
94	Douglass, Francis Malcolm	Arizona	July 6, 1928	20	2
210	Dreany, Harry Hayes	Kansas	June 29, 1928	19	3
94	Dropp, Anthony Henry	Wisconsin	June 15, 1928	18	5
10	Drysdale, Robert Drake	Idaho	June 14, 1928	19	9
300	Duell, Robert Ensor	New York	June 16, 1927	20	0
307	Eastwold, Earl Russell	Minnesota	Aug. 31, 1928	19	9
371	Elliott, Lynn Thomas	Kansas	June 18, 1928	19	5
498	Ely, Louis Breton	Pennsylvania	July 17, 1928	18	6
422	Emrick, Paul Edgar	do.	July 9, 1928	18	3
380	Enright, William Keith	California	June 29, 1928	19	5
*19	Ernst, Sidney Alfred	Michigan	July 10, 1928	20	2
*25	Evans, Robert Lloyd	Washington	June 15, 1928	20	0
332	Everett, Charles Henry, jr.	Texas	June 19, 1928	19	3
139	Everett, John Leak, jr.	North Carolina	July 6, 1928	17	4
444	Fackler, Ralph Waldo	Ohio	June 22, 1928	19	2
342	Fahy, John Southworth	Rhode Island	Aug. 23, 1928	18	8
217	Fairbanks, John Francis, jr.	Massachusetts	June 28, 1928	19	11
260	Faires, Carl Franklin, jr.	Georgia	Aug. 31, 1928	18	8
67	Fang, Owen Elkins	New York	June 21, 1928	19	1
213	Fawcett, Marion Arthur	Indiana	June 29, 1928	20	3
*3	Fawkes, Emerson Evans	Iowa	June 25, 1928	17	0
258	Feldscher, Willard	Wyoming	July 23, 1928	18	0
335	Fernald, Frank Stanford	Texas	July 16, 1928	19	9
76	Fink, George Rickards	New Jersey	June 18, 1928	17	3
222	Finnay, Earl Peck, jr.	At large (Pres.)	June 14, 1928	18	0
62	Fleck, Thomas Martin	Ohio	June 15, 1928	19	1
223	Fleenniken, James Alexander	New York	July 6, 1928	17	11
74	Foley, Francis Drake	do.	July 7, 1928	18	0
201	Ford, Joel Clarence, jr.	Alabama	June 14, 1928	17	4
92	Frakes, Dale Roderick	Minnesota	June 29, 1928	19	6
203	Francis, Harry Grover	New York	Aug. 27, 1928	16	6
*29	Franklin, William Richard	do.	June 17, 1927	19	10
39	Frazer, Charles Leonard	Iowa	June 22, 1928	17	3
330	Freund, Bernard William	Virginia	June 19, 1928	17	11
271	Frey, Charles Weiser	Pennsylvania	July 6, 1928	18	3
71	Fulton, Robert Burwell, 2d	Mississippi	do.	17	6
286	Gamble, Robert Lynn	Minnesota	June 25, 1928	17	11
371	Garrison, Malcolm Everett	Iowa	July 6, 1928	18	3
293	Gates, Albert Eugene, jr.	District of Columbia	June 30, 1927	18	7
51	Gibson, Scott Kendall	Washington	June 30, 1928	19	2
234	Gold, Charles Cary	Pennsylvania	July 16, 1928	17	9
408	Goodgame, Robert Edward, jr.	Tennessee	July 9, 1928	19	2
361	Goodhue, Arthur Archibald	Massachusetts	June 28, 1928	19	11
358	Goodman, Daniel Crosby	Minnesota	June 22, 1928	20	1
146	Gorsline, Richard Howard	Illinois	July 6, 1928	17	0
432	Gothie, Daniel Shinton	Pennsylvania	July 31, 1928	17	10
44	Gramlich, Frederick Martin	New York	July 26, 1928	17	3
359	Greene, Richard Oden	Oklahoma	June 20, 1928	19	3
134	Greenlee, Archibald Wilson	Illinois	Aug. 31, 1928	17	6
482	Greenlee, Halford Robert, jr.	do.	July 18, 1928	18	8
283	Gregory, Richard Victor	Virginia	June 28, 1928	18	3

first year of their academic course, 528 members, June, 1929—Continued

Sea service in practice ships		Engineering and aeronautics	Mathematics	Electrical engineering and physics	English	Languages	Aptitude for service	Aggregate first year
Months	Days	Maximum						
		12	32	16	16	12	12	100
2	24	8.73	24.12	13.30	13.94	10.21	11.01	81.31
2	24	9.26	24.04	11.64	11.30	8.18	10.86	75.28
2	24	8.38	23.84	11.58	12.08	11.13	11.76	78.77
2	24	8.29	23.48	11.98	12.26	9.65	9.09	74.75
2	24	8.63	24.60	11.78	13.00	11.18	11.76	80.95
2	24	8.68	24.52	12.84	11.80	8.10	11.28	77.22
2	24	9.07	24.24	13.64	12.24	10.12	11.64	80.95
0	0							
5	15	8.62	22.24	12.50	10.94	9.17	11.40	74.87
2	24	9.24	22.52	12.60	11.24	7.83	11.28	74.71
2	24	8.33	21.64	11.02	11.86	8.98	11.58	73.41
2	24	7.89	20.32	10.72	10.52	7.91	10.56	67.92
2	24	7.87	20.88	11.02	12.10	8.57	11.55	71.99
2	24	8.58	22.12	10.82	11.36	8.60	11.67	73.15
2	24	9.35	27.28	14.02	13.10	11.38	11.76	86.89
2	24	10.44	26.44	13.86	12.44	10.62	11.91	85.71
2	24	8.68	21.16	12.28	11.88	8.29	11.85	74.14
2	24	9.21	25.96	12.18	11.58	8.80	11.67	79.40
2	24	8.14	21.16	10.72	11.20	8.07	11.82	71.11
2	24	8.72	21.56	12.20	11.68	8.20	11.61	73.97
2	24	8.75	22.60	11.98	11.56	10.56	11.64	77.09
2	24	8.04	22.04	12.16	12.44	10.11	10.98	75.77
2	24	9.29	26.04	13.72	12.30	9.46	11.37	82.18
2	24	10.23	22.72	11.76	11.90	8.70	11.88	77.19
2	24	9.85	30.64	14.56	12.72	10.89	11.97	90.63
2	24	9.89	23.56	11.92	11.34	8.08	11.01	75.80
2	24	8.81	21.04	10.86	12.26	9.58	11.55	74.10
2	24	8.66	26.12	12.64	12.40	10.19	11.76	81.77
2	24	8.15	24.40	11.96	11.40	9.04	12.00	76.95
2	24	8.93	25.48	13.14	13.02	10.21	11.61	82.39
2	24	8.20	23.72	12.30	11.62	9.73	11.34	76.91
2	24	8.85	24.56	12.70	13.30	10.40	11.97	81.78
2	24	8.68	22.96	11.90	13.12	8.89	11.91	77.46
2	24	8.95	25.12	13.94	12.66	8.54	11.82	81.03
2	24	8.39	24.24	12.16	11.50	9.78	11.31	77.38
2	24	9.77	26.72	13.78	12.94	10.09	11.97	85.27
2	24	9.16	25.56	13.54	13.22	10.95	11.79	84.22
2	24	9.20	23.56	11.14	10.74	7.91	11.61	74.16
2	24	8.79	22.08	11.56	12.34	8.88	11.88	75.53
1	23	9.26	26.48	12.34	12.50	9.92	11.88	81.90
2	24	8.22	22.92	11.90	11.96	9.05	11.13	75.18
2	24	7.79	20.68	11.40	12.16	9.59	11.79	73.41
5	15	7.93	22.32	11.38	11.64	10.04	11.70	75.01
2	24	9.56	26.52	13.44	11.72	10.03	11.79	83.06
2	24	8.71	22.84	11.92	11.94	9.36	11.67	76.44
2	24	8.13	21.88	11.10	11.44	8.17	11.79	72.51
2	24	7.60	21.80	11.42	12.44	9.04	11.22	73.52
2	24	7.69	22.44	11.34	11.60	9.13	11.46	73.66
2	24	9.08	24.60	11.96	12.26	10.24	10.98	79.12
2	24	8.05	21.48	11.28	11.70	9.22	9.81	71.54
2	24	9.87	27.44	13.08	12.16	9.33	11.79	83.67
2	24	8.97	23.44	11.04	11.12	8.76	10.32	73.65
2	24	8.91	26.80	12.58	11.38	9.08	10.83	79.58
2	24	8.18	20.80	10.24	11.08	8.01	11.25	69.56
2	24	8.49	23.08	11.84	12.04	7.78	12.00	75.23

Merit roll of the midshipmen of the present third class (class of 1932), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission	
				Years	Months
252	Grider, John McGavock.....	P. A. 348 (Pres.).....	June 27, 1928	17	7
72	Grouleff, Paul Henry.....	New York.....	June 15, 1928	18	0
446	Grove, James Francis.....	Pennsylvania.....	June 29, 1928	18	1
152	Groverman, William Heald, jr.....	West Virginia.....	July 16, 1928	18	8
483	Gunther, Rush Bailey.....	Pennsylvania.....	June 22, 1928	18	6
270	Halsey, LeRoy Bartlett.....	South Carolina.....	do.....	19	3
411	Hamilton, Mason Jay.....	Indiana.....	Aug. 2, 1928	17	6
81	Hanson, Albert Eugene.....	Wisconsin.....	June 29, 1928	18	10
400	Hardie, Thomas George.....	Iowa.....	do.....	20	1
331	Harral, Brooks Jared.....	New York.....	July 7, 1928	16	11
154	Harrington, Paul Herbert.....	do.....	Aug. 7, 1928	18	0
318	Harwell, Joseph LaPrade.....	Georgia.....	Sept. 4, 1928	19	11
131	Harwood, Richard Drury.....	Tennessee.....	Aug. 11, 1927	17	11
10	Hatcher, Julian Sommerville.....	At large (Pres.).....	June 14, 1928	17	1
470	Howorth, Karl Frederick.....	Massachusetts.....	do.....	19	0
96	Hayes, J. Harry.....	New Jersey.....	June 21, 1928	19	11
484	Hayward, Verburt Norton.....	Washington.....	do.....	18	11
382	Head, Harvey, Hatcher.....	Georgia.....	July 2, 1928	20	1
85	Heinlein, Oscar Allen, jr.....	Missouri.....	June 22, 1928	16	6
107	Hendrick, Hugh Lee, jr.....	Texas.....	June 19, 1928	18	5
314	Hitchcock, Charles.....	New York.....	June 28, 1928	18	7
266	Hobbs, George Orrin.....	Idaho.....	July 17, 1928	20	0
99	Hodge, Ernest Debbes.....	California.....	June 21, 1928	18	8
438	Hodgkins, Edward Ruggles.....	Arizona.....	July 16, 1928	18	1
268	Holloway, Carlton, Elbridge.....	Massachusetts.....	June 22, 1928	18	4
356	Holloway, William Ponder.....	Texas.....	June 15, 1928	17	8
447	Holmes, William McClintic.....	Oklahoma.....	June 19, 1928	17	8
235	Holt, Phillip Christian.....	P. A. 348 (Pres.).....	June 21, 1928	18	10
333	Hooper, John Hall.....	New York.....	Aug. 23, 1928	18	1
426	Hopkins, Thomas Walton.....	Maryland.....	Aug. 7, 1928	17	5
*24	Horner, John Stuart.....	Michigan.....	July 23, 1928	16	11
220	Howe, Frederic Northey.....	P. A. 348 (Pres.).....	July 6, 1928	17	6
202	Howle, Wilbur Graham.....	South Carolina.....	July 20, 1928	17	9
350	Hughes, David Emerson.....	California.....	July 10, 1928	18	1
198	Hughes, George Ervin.....	Oklahoma.....	July 6, 1928	17	4
44½	Hull, Harry.....	Georgia.....	July 9, 1928	16	6
324	Humes, Ralph Martin.....	Rhode Island.....	June 28, 1928	18	4
362	Humiston, Julian Gray.....	Idaho.....	June 15, 1928	18	10
368	Humrichouse, James Walker.....	Pennsylvania.....	July 6, 1928	17	3
207	Hunter, George Cuthbert.....	South Dakota.....	July 9, 1928	17	5
305	Hurley, Thomas Benedict.....	New York.....	June 15, 1928	19	8
35	Hurst, Edwin William.....	South Dakota.....	Aug. 2, 1928	17	10
252	Hutchings, Charles Slack.....	Texas.....	June 29, 1928	19	5
486	Hutchinson, Edward Leigh.....	New Jersey.....	July 10, 1928	18	10
344	Hutchinson, George Leland.....	Colorado.....	July 24, 1928	18	5
128	Hydeman, Earl Twining.....	Ohio.....	Sept. 1, 1928	17	2
45	Innis, Walter Deane.....	Indiana.....	Aug. 31, 1928	19	6
43	Jaap, Joseph Abraham.....	Colorado.....	July 7, 1928	19	6
34	Jacobs, John Francis, jr.....	New Jersey.....	July 9, 1928	16	6
244	James, George Shearman, jr.....	Maryland.....	June 22, 1928	17	7
465	Janz, Eugene.....	At large (Pres.).....	Aug. 27, 1928	19	4
429	Jewett, Garry William, jr.....	Washington.....	June 21, 1928	19	5
459	Johnson, Clifford Arthur.....	Illinois.....	July 9, 1928	17	10
342	Johnson, John Henry Stewart.....	Mississippi.....	June 18, 1928	19	5
248	Johnson, Ralph Clarence.....	Illinois.....	June 29, 1928	17	6

first year of their academic course, 528 members, June, 1929—Continued

Sea service in practice ships		Engineering and aero-nautics	Mathe-matics	Electrical engineering and physics	English	Languages	Aptitude for service	Aggregate first year
Months	Days	Maximum						
		12	32	16	16	12	12	100
2	24	8.32	23.84	11.64	11.94	8.34	11.82	75.90
2	24	10.07	25.28	13.40	12.08	9.30	11.76	81.89
2	24	8.00	21.52	10.98	10.80	8.12	11.64	71.06
2	24	9.38	25.20	12.32	12.28	8.01	11.82	79.01
2	24	8.58	20.96	10.78	10.60	7.78	10.74	69.44
2	24	8.70	22.56	12.54	11.24	8.63	11.88	75.55
2	24	7.59	22.12	10.76	11.60	8.41	11.88	72.36
2	24	9.17	25.80	12.06	12.00	10.55	11.73	81.31
2	24	8.55	21.64	10.74	11.76	8.98	10.98	72.65
2	24	8.42	21.96	11.64	12.02	9.10	11.01	74.15
2	24	8.10	24.20	12.56	12.22	10.10	11.76	78.94
2	24	8.16	22.24	11.88	11.34	9.66	11.19	74.47
2	24	8.42	24.68	12.86	12.36	9.60	11.79	79.71
2	24	8.45	20.24	11.04	11.58	7.40	11.43	70.14
2	24	9.31	25.28	12.76	11.32	10.55	11.61	80.83
2	24	7.56	20.08	10.18	11.70	8.30	11.61	69.43
2	24	8.02	21.80	11.00	11.78	9.66	10.83	73.09
2	24	9.97	26.80	12.72	11.56	8.33	11.85	81.23
2	24	8.98	25.40	13.18	11.78	9.31	11.76	80.41
2	24	7.83	23.68	10.76	11.96	8.82	11.55	74.60
2	24	9.39	24.00	11.36	11.18	8.44	11.22	75.59
2	24	10.46	25.24	12.62	11.76	9.29	11.37	80.74
2	24	7.90	20.32	10.64	11.84	9.17	11.40	71.27
2	24	7.52	22.48	11.08	12.08	10.51	11.91	75.58
2	24	7.94	21.72	10.84	11.82	9.60	11.76	73.68
2	24	8.55	21.16	10.74	10.64	8.17	11.76	71.02
2	24	9.99	24.80	11.72	10.54	7.86	11.52	76.43
2	24	9.35	22.24	10.98	11.78	8.25	11.52	74.12
2	24	8.26	21.36	11.22	11.08	8.34	11.70	71.96
2	24	9.58	27.04	13.84	13.08	10.23	12.00	85.77
2	24	9.00	22.72	11.90	11.80	9.71	11.94	77.07
2	24	8.15	23.40	10.96	12.28	10.70	11.94	77.43
2	24	9.20	23.08	11.22	11.20	8.62	10.50	73.82
2	24	9.28	22.04	12.66	12.92	9.24	11.40	77.54
2	24	8.43	26.04	12.70	13.26	11.28	11.94	83.65
2	24	7.85	22.36	11.58	11.56	9.04	11.91	74.30
2	24	7.89	21.36	10.70	12.34	10.25	10.95	73.49
2	24	8.53	21.56	11.12	11.24	9.29	11.70	73.44
2	24	8.53	23.44	12.12	12.14	9.16	11.91	77.30
2	9	8.10	22.56	12.20	10.84	9.46	11.58	74.74
2	24	9.29	27.28	13.74	12.82	9.88	11.82	84.83
2	24	8.44	23.84	11.06	12.24	9.13	11.19	75.90
2	24	7.67	20.92	10.66	10.86	8.35	10.77	69.23
2	24	9.28	21.44	11.10	11.30	8.95	11.88	73.95
2	24	8.90	23.12	12.48	12.82	10.54	11.94	79.80
2	24	9.69	24.76	14.54	12.58	10.29	11.76	83.62
2	24	9.23	25.20	13.98	13.12	10.52	11.67	83.72
2	24	9.44	26.92	12.90	12.94	11.26	11.43	84.89
2	24	8.85	23.48	11.46	11.88	9.33	11.22	76.22
2	24	8.86	22.64	10.34	10.78	8.00	9.78	70.40
1	23	8.42	20.36	10.82	11.12	8.99	12.00	71.71
2	24	7.90	21.36	10.66	11.00	8.47	11.25	70.64
2	24	7.92	23.08	11.72	11.20	8.62	11.43	73.97
2	24	8.24	23.68	11.32	11.66	9.73	11.37	76.00

Merit roll of the midshipmen of the present third class (class of 1932), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission	
				Years	Months
405	Johnson, Stanley Howard	Michigan	July 20, 1928	16	6
104	Jones, John Paul, jr.	Oregon	July 16, 1928	19	11
414	Jonson, William Crawford, jr.	Kentucky	June 18, 1928	18	5
437	Jukes, Herbert Lollis	Arkansas	June 29, 1928	20	0
251	Kaplan, Albert David	Iowa	June 18, 1928	18	0
360	Kashower, Robert Herman	California	June 29, 1928	19	9
306	Kasperek, Clarence Emery	Nebraska	June 21, 1928	18	7
176	Kaufman, John Holladay	At large (Pres.)	June 14, 1928	18	1
349	Keen, Cleo Rafter	Missouri	June 22, 1928	18	7
273	Keene, Charles, jr.	District of Columbia	June 21, 1928	19	2
55	Kehl, George William	Texas	June 28, 1928	19	5
93	Kelly, William Daniel	Pennsylvania	June 19, 1928	17	8
95	Kemper, James Lawson	California	Aug. 29, 1928	19	4
243	Kenna, William Edward	West Virginia	June 29, 1928	17	4
415	Kerr, Frank Ingalls	Louisiana	Aug. 31, 1928	20	0
119	Kerr, Robert Hartley	New York	June 22, 1928	17	11
*5	Keyes, Charles Melville	Colorado	June 21, 1928	18	3
*31	Keyes, Franklin George	New York	July 16, 1928	18	6
390	Keyser, Charles Hampson	Virginia	Sept. 1, 1928	19	7
40	Kinert, David Frederic	Washington	June 29, 1928	18	9
225	King, Otis Bascom	Alabama	June 15, 1927	17	8
88	Kintberger, Leon Samuel	Maryland	Aug. 30, 1928	18	4
195	Kirch, Frederick James	New York	June 15, 1928	18	1
89	Kirn, Louis Joseph	Wisconsin	July 6, 1928	20	1
132	Klinksiek, Henry Tylman	Missouri	June 29, 1928	19	5
139	Knock, Daniel Clyde, jr.	Kansas	June 22, 1928	18	5
*30	Knoertzer, Halford A.	Washington	do	17	4
189	Koivisto, Martin Mathew	Michigan	June 18, 1928	19	1
289	Konrad, Edmond George	Wisconsin	June 21, 1928	19	4
481½	Kretz, Charles Henry, jr.	Oklahoma	June 15, 1928	18	4
66	Kuhl, Joseph Howard	Iowa	July 16, 1928	20	3
323	Labouisse, Samuel Stanhope	Louisiana	Aug. 31, 1928	18	11
269	Lamade, John Dietrick	Pennsylvania	July 7, 1928	18	3
46	Lambert, Richard Holland	Massachusetts	July 6, 1928	18	2
101	Langen, Thomas David Francis	do	June 22, 1928	20	2
126	Lank, Theodore Small	Delaware	July 7, 1928	19	1
377	Lanman, Charles Burrows	Arizona	July 16, 1928	19	3
264	Lapidus, Earl Alvin	Nebraska	July 31, 1928	18	4
135	Lark, Jacob Aucker	Pennsylvania	July 6, 1928	18	5
161	Latta, Frank DeVere	Iowa	July 23, 1928	19	6
322	Lavery, Richard John	Illinois	July 19, 1928	18	3
59	Leeds, John Raymond	Pennsylvania	June 15, 1928	20	2
368	Leonard, Robert Craven	North Carolina	June 19, 1928	18	8
313	Letts, Kenneth Pearle	Michigan	June 28, 1928	19	7
474	Leverenz, Roy Fred	do	July 24, 1928	18	10
329	Leverett, Travis Robert	Texas	June 20, 1928	18	3
185	Lewis, John Stephen	At large (V. P.)	June 22, 1928	20	2
*14	Lewis, Porter	Alabama	July 16, 1928	17	1
138	Lewis, Walter Henry	Pennsylvania	June 19, 1928	18	6
62	Lietwiler, John Marion	Ohio	June 25, 1928	20	2
218	Little, Rex Beach	Kansas	June 14, 1928	17	11
426	Lockwood, Harris Cade	New York	June 19, 1928	19	9
115	Loughlin, Joseph James, jr.	P. A. 348 (Pres.)	July 6, 1928	20	0
319	Loveland, Kenneth	Utah	June 30, 1928	18	8
412	Lowndes, Thomas Pinckney	South Carolina	June 28, 1928	19	4

first year of their academic course, 528 members, June, 1929—Continued

Sea service in practice ships		Engineering and aeronautics	Mathematics	Electrical engineering and physics	English	Languages	Aptitude for service	Aggregate first year
Months	Days	Maximum						
		12	32	16	16	12	12	100
2	24	8.47	23.16	11.44	11.58	8.19	9.72	72.56
2	24	9.01	26.68	12.72	11.36	8.85	11.85	80.47
2	24	7.49	21.36	11.44	11.64	8.47	11.91	72.31
2	24	8.72	20.96	10.60	11.14	7.98	11.88	71.28
2	24	8.33	23.16	13.28	11.86	8.56	10.77	75.96
2	24	8.00	23.08	11.90	11.52	7.97	11.10	73.57
2	24	8.87	22.40	11.70	11.60	8.72	11.43	74.72
2	24	8.50	24.88	12.78	12.66	8.74	10.74	78.30
2	24	8.22	23.80	11.92	10.64	7.97	11.28	73.83
2	24	8.76	24.16	11.40	12.02	8.44	10.71	75.49
2	24	9.91	25.64	12.14	12.78	10.72	11.64	82.83
2	24	8.85	24.64	12.82	12.70	10.04	11.97	81.02
2	24	9.65	24.96	12.94	11.92	9.54	11.88	80.89
2	24	10.35	23.96	11.20	11.46	8.07	11.19	76.23
2	24	9.54	21.00	11.28	11.86	8.17	11.43	72.28
2	24	9.38	24.48	13.16	12.06	9.56	11.43	80.07
2	24	9.94	28.60	14.50	13.02	11.19	11.82	89.07
2	24	8.87	26.76	13.62	13.46	10.79	11.52	85.02
2	24	8.45	21.76	11.44	11.60	8.31	11.34	72.90
2	24	9.25	27.56	13.68	12.48	9.28	11.82	84.07
5	15	8.72	23.32	12.42	11.84	9.21	11.34	76.85
2	24	9.35	27.36	12.98	11.36	8.52	11.58	81.15
2	24	7.61	22.84	11.08	12.84	11.26	11.97	77.60
2	9	9.49	24.80	13.34	11.72	9.91	11.88	81.14
2	24	9.43	25.16	12.80	11.92	9.31	11.04	79.66
2	24	7.99	25.08	12.06	12.70	10.02	11.55	79.40
2	24	9.09	26.36	14.04	13.80	10.17	11.61	85.07
2	24	9.46	23.28	12.64	12.20	8.32	11.88	77.78
2	9	8.87	23.52	12.10	11.36	8.15	11.07	75.07
2	24	8.18	20.52	10.38	10.70	8.19	11.61	69.58
2	24	9.52	25.28	13.40	12.96	9.18	11.85	82.19
2	24	9.21	22.24	11.10	11.74	8.78	11.28	74.35
2	24	7.99	24.08	11.32	11.16	9.32	11.70	75.57
2	24	9.60	25.48	13.72	12.46	10.69	11.52	83.47
2	24	8.97	25.08	12.44	13.82	9.37	10.86	80.54
2	24	9.85	25.80	12.28	11.08	9.05	11.76	79.82
2	24	8.24	21.88	11.68	12.08	8.35	11.01	73.24
2	24	8.36	22.48	11.20	11.90	10.48	11.22	75.64
2	24	8.92	25.92	11.78	11.96	9.00	11.94	79.52
2	24	10.87	24.28	11.62	12.00	8.60	11.34	78.71
2	24	7.79	22.64	11.98	11.56	8.66	11.73	74.36
2	24	10.12	25.60	13.58	12.02	9.51	11.73	82.56
2	24	8.67	21.20	11.38	11.74	8.66	11.79	73.44
2	24	8.10	22.16	11.76	11.72	8.91	11.97	74.62
2	24	7.84	21.20	11.18	10.90	8.12	10.59	69.83
2	24	9.07	23.04	12.02	10.94	8.76	10.35	74.18
2	24	8.52	21.64	13.36	12.72	10.06	11.64	77.94
2	24	9.77	28.16	14.02	13.32	10.64	11.76	87.67
2	24	8.74	24.84	13.32	11.94	9.10	11.49	79.43
2	24	8.59	24.12	13.26	13.42	11.27	11.73	82.39
2	24	8.35	23.28	12.00	12.68	9.04	11.73	77.08
2	24	8.82	21.84	11.90	10.54	7.84	10.98	71.92
2	24	8.84	24.72	12.88	12.66	9.32	11.79	80.21
2	24	8.18	23.72	10.56	11.70	8.73	11.55	74.44
2	24	9.10	21.44	11.24	11.00	7.69	11.88	72.35

Merit roll of the midshipmen of the present third class (class of 1932), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission	
				Years	Months
246	Lucier, Roland Omer.....	Montana.....	June 29, 1928	19	11
232	Luker, George Robert.....	Illinois.....	June 14, 1928	20	0
231	Lunger, John Philip.....	New York.....	June 19, 1928	18	7
441	Lyons, Charles Malaher, jr.....	Massachusetts.....	July 9, 1928	18	9
297	Lyons, William Beauveau Borie.....	Pennsylvania.....	July 2, 1928	19	1
479	Maher, Eugene Hugh.....	Utah.....	July 25, 1928	20	3
464	Major, Albert Sidney, jr.....	Virginia.....	June 29, 1928	19	11
159½	Mallory, Charles King, jr.....	Maryland.....	June 25, 1928	18	7
*2	Mandelkorn, Richard Shai.....	Illinois.....	July 9, 1928	17	11
456	Mang, Louis Wilbur.....	Maryland.....	July 28, 1928	19	6
453	Manwaring, James Murray.....	At large (Pres.).....	Aug. 17, 1928	17	11
214	Marshall, James Gilbert.....	Tennessee.....	June 19, 1928	18	1
275	Mather, Max Chapman.....	Ohio.....	July 2, 1928	19	4
189	Matter, Alfred Richard.....	Montana.....	July 20, 1928	18	5
431½	Matthews, John Stanley.....	California.....	Aug. 31, 1928	20	2
295	Maulsby, Robert John Costley.....	Iowa.....	June 21, 1927	17	2
441	Mayer, Rollins Harry.....	Missouri.....	June 22, 1928	19	8
460	McAlpine, Lloyd Hiram.....	Massachusetts.....	June 28, 1928	19	10
381	McCandless, Bruce.....	Colorado.....	June 14, 1928	16	10
383	McCarley, Henry Harris.....	South Carolina.....	July 23, 1928	18	3
403	McCormick, John Joseph.....	Pennsylvania.....	June 19, 1928	17	10
339	McCornock, Samuel Aldo.....	Michigan.....	July 16, 1928	17	6
406	McCrea, Victor B.....	Ohio.....	June 26, 1928	19	11
398	McDonald, David Harold.....	Tennessee.....	June 28, 1928	20	2
451	McDougal, Douglas Cassel, jr.....	California.....	June 14, 1928	17	10
428	McGoldrick, Joseph Aloysius.....	Pennsylvania.....	July 30, 1928	19	5
477	McGuire, Hudson Lee.....	Kansas.....	June 22, 1928	18	8
281	McIver, DeWitt Clinton, jr.....	North Carolina.....	June 19, 1928	18	0
398	McKenney, Warren Haill.....	Illinois.....	July 31, 1928	18	8
200	McKibbin, Carlyle Rentz.....	Wisconsin.....	Sept. 4, 1928	19	1
485	McLeod, Donald King.....	Nevada.....	June 22, 1928	18	8
301	McVay, Robert Locher.....	New York.....	June 19, 1928	19	8
340	Meador, Equen Burleson.....	do.....	June 29, 1928	18	5
156	Miller, John Stanley.....	Texas.....	June 25, 1928	19	8
*8	Miller, William Reynolds.....	Maryland.....	July 17, 1928	16	10
469	Milliren, Glenn Alvin, jr.....	Pennsylvania.....	July 9, 1928	19	8
*12	Mitchell, Gilbert Hesser.....	do.....	July 23, 1928	17	3
159	Moncure, Samuel Pemberton.....	Virginia.....	Sept. 1, 1928	18	11
346	Montgomery, Thomas Jefferson.....	Ohio.....	June 22, 1928	17	8
*7	Montgomery, William Penn, jr.....	Kansas.....	June 15, 1928	16	10
86	Moore, Harry Grimshaw.....	Georgia.....	July 9, 1928	19	5
247	Moore, John Anderson.....	Arizona.....	June 15, 1928	18	5
417	Moore, Robert Brevard.....	North Carolina.....	July 7, 1928	18	9
110	Moore, Robert Clem.....	Arizona.....	June 29, 1928	17	4
466	Morgan, Robert Arlan.....	New Hampshire.....	July 6, 1928	18	2
41	Morse, John Henry, jr.....	South Carolina.....	June 22, 1928	18	1
259	Munger, Malcolm Townsend.....	Massachusetts.....	July 9, 1928	19	4
127	Munholland, John.....	Louisiana.....	June 22, 1928	17	7
57	Munson, Henry Glass.....	California.....	June 29, 1928	18	6
249	Murphy, Charlton Lewis, jr.....	Pennsylvania.....	June 28, 1928	20	2
311	Murphy, Jerome Elmer, jr.....	New York.....	July 19, 1928	18	11
69	Murray, Ellsworth Neil.....	Minnesota.....	June 14, 1928	18	0
410	Musgrave, Charles Wiegel.....	Ohio.....	July 9, 1928	18	10
50	Mustin, Lloyd Montague.....	Pennsylvania.....	June 14, 1928	16	11

first year of their academic course, 528 members, June, 1929—Continued

Sea service in practice ships		Engineering and aeronautics	Mathematics	Electrical engineering and physics	English	Languages	Aptitude for service	Aggregate first year
Months	Days	Maximum						
		12	32	16	16	12	12	100
2	24	8.39	23.80	11.60	12.12	8.62	11.61	76.14
2	24	8.71	22.60	12.18	12.48	8.71	11.88	76.56
2	24	7.75	22.84	11.38	11.54	11.21	11.85	76.57
2	24	7.43	21.40	10.80	10.74	9.75	11.10	71.22
2	24	7.97	21.76	11.20	12.72	9.27	12.00	74.92
2	24	8.05	21.68	10.56	11.02	7.69	10.68	69.68
2	24	8.14	21.36	10.82	10.74	7.57	11.85	70.48
2	24	9.19	24.68	12.00	12.28	8.71	11.97	78.83
2	24	10.26	30.32	14.80	13.82	11.38	10.95	91.53
2	24	8.33	21.12	10.22	11.28	8.03	11.70	70.68
2	24	7.66	21.44	10.10	11.46	8.65	11.58	70.89
2	24	9.05	25.20	11.30	11.72	8.09	11.79	77.15
2	24	8.44	21.96	12.30	11.46	9.46	11.85	75.47
2	24	7.78	23.80	13.42	11.50	9.73	11.55	77.78
1	8	9.47	20.48	11.02	10.98	7.93	11.73	71.61
3	21	9.60	22.00	10.64	11.80	9.92	10.98	74.94
2	24	8.50	22.36	10.98	10.32	8.38	10.68	71.22
2	24	7.90	20.96	10.32	10.40	9.29	11.76	70.63
2	24	8.90	21.44	11.02	12.58	7.92	11.25	73.11
2	24	8.71	21.28	10.88	11.32	9.11	11.73	73.03
2	24	7.86	21.28	12.16	11.72	8.45	11.13	72.60
2	24	7.65	21.84	12.58	12.00	9.25	10.68	74.00
1	8	7.99	22.52	11.18	11.12	7.95	11.79	72.55
2	24	8.09	22.20	10.94	11.40	8.30	11.73	72.66
2	24	8.06	23.32	10.30	11.20	9.93	8.10	70.91
2	24	8.29	22.48	10.98	11.74	8.42	9.81	71.72
2	24	7.58	21.20	11.36	11.14	7.69	10.80	69.77
2	24	8.45	22.72	11.38	11.96	9.14	11.61	75.26
2	24	8.46	21.32	11.24	11.48	8.70	11.46	72.66
2	24	8.72	23.36	12.00	12.38	9.40	11.64	77.50
2	24	7.83	20.12	10.56	11.22	7.91	11.76	69.40
2	24	8.10	22.72	10.42	12.02	9.53	12.00	74.79
2	24	9.05	21.72	11.68	12.74	7.84	10.95	73.98
2	24	8.94	23.52	11.32	13.02	10.67	11.43	78.90
2	24	10.59	27.96	14.58	13.38	10.16	12.00	88.67
2	24	8.37	21.64	10.20	10.72	7.63	11.61	70.17
2	24	8.86	28.76	14.50	13.68	10.96	11.37	88.13
2	24	9.30	24.36	12.84	11.56	8.97	11.82	78.85
2	24	7.83	21.68	11.16	12.06	9.19	12.00	73.92
2	24	9.04	31.08	14.60	12.66	10.37	10.95	88.70
2	24	9.05	26.48	13.48	11.62	9.02	11.52	81.17
2	24	8.46	23.84	11.64	11.30	9.34	11.49	76.07
2	24	8.13	21.52	11.04	11.42	8.23	11.88	72.22
2	24	9.79	24.40	12.54	12.26	10.09	11.25	80.33
2	24	8.08	20.40	11.10	10.60	8.48	11.70	70.36
2	24	9.72	25.60	13.54	13.44	10.00	11.67	83.97
2	24	8.74	23.44	11.98	11.68	8.25	11.70	75.79
2	24	8.39	23.48	12.86	12.22	10.98	11.88	79.81
2	24	10.05	27.08	13.84	12.18	9.29	10.29	82.73
2	24	8.86	23.16	11.32	12.84	7.86	11.94	75.98
2	24	8.06	22.44	11.58	11.58	9.37	11.64	74.67
2	24	9.25	25.96	12.54	12.42	9.99	11.82	81.98
2	24	7.64	22.72	11.52	11.00	8.01	11.52	72.41
2	24	9.68	25.56	12.94	12.98	10.34	11.58	83.08

Merit roll of the midshipmen of the present third class (class of 1932), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission	
				Years	Months
416	Myatt, Lawrence Leslie.....	Massachusetts.....	July 27, 1928	19	9
112	Myers, Jacob Christian.....	California.....	June 29, 1928	18	9
143	Nelson, Carl Philip.....	North Dakota.....	June 15, 1928	18	6
4490	Nelson, Rollis Samuel.....	do.....	June 23, 1928	17	11
165	Nicholas, Nicholas John.....	Maine.....	June 22, 1928	19	2
238	Nisewaner, Terrell Andrew.....	Idaho.....	June 29, 1928	18	2
60	Nuessle, Francis Edward.....	North Dakota.....	June 27, 1928	17	5
150	O'Brien, Francis Joseph.....	California.....	June 28, 1928	19	8
394	O'Connor, Michael Bernard.....	Oregon.....	June 20, 1928	18	6
207	Odend'hal, Charles Joseph, jr.....	Massachusetts.....	Aug. 23, 1928	17	7
73	Osler, Paul Gordon.....	Iowa.....	June 14, 1928	18	0
467	Ottinger, George Malone.....	Tennessee.....	Aug. 27, 1928	18	4
337	Outerson, William.....	California.....	Aug. 7, 1928	18	7
443	Ovrom, Allan Alfred.....	Wisconsin.....	June 22, 1928	18	3
450	Owens, Hinton Allen.....	Georgia.....	July 25, 1928	19	4
70	Palmer, Charles Joseph.....	New Hampshire.....	July 18, 1928	17	11
385	Parker, Alton E.....	Idaho.....	June 22, 1928	19	8
348	Parker, Frank Mahlon.....	Indiana.....	do.....	17	9
436	Parks, Charles Henry.....	At large (V. P.).....	June 19, 1928	19	8
232½	Parks, John Robert.....	Missouri.....	June 21, 1928	20	0
303	Parrish, Lloyd Withers.....	New Mexico.....	July 5, 1927	19	10
124	Pavlic, Milton Frank.....	Ohio.....	June 25, 1928	18	6
427	Payne, Edwin Kent.....	West Virginia.....	June 21, 1928	19	10
389	Perkins, Charles Elliott.....	North Carolina.....	June 28, 1928	19	2
116	Perkins, William Beckwith, jr.....	Virginia.....	June 21, 1928	17	4
53	Pfingstag, Paul William.....	Indiana.....	July 18, 1928	17	6
319	Phares, Everett Lang.....	Maryland.....	June 28, 1928	19	9
130½	Philburn, Robert Valentine.....	New Jersey.....	June 14, 1927	17	8
464½	Phipps, Joseph Clark.....	Virginia.....	June 21, 1928	19	3
122	Pierce, George Ellis.....	Tennessee.....	June 19, 1928	18	8
223	Pinkston, Earl Roland.....	Georgia.....	June 15, 1928	18	5
83	Pitts, Ray Maurer.....	Texas.....	June 28, 1928	18	9
133	Pletta, Fred Arthur.....	Illinois.....	July 31, 1928	18	11
354	Porter, George Egbert, jr.....	Pennsylvania.....	July 17, 1928	19	1
52	Porter, Robert Reed.....	Wisconsin.....	June 25, 1928	17	11
109	Pressey, George Washington.....	Virginia.....	July 6, 1928	18	0
42	Prince, Howard Riche.....	Tennessee.....	June 28, 1928	19	8
4497	Pursley, David Irvin.....	Pennsylvania.....	June 29, 1928	18	2
375	Quarles, Samuel Frank.....	Virginia.....	June 19, 1928	17	5
471	Quirk, Philip Decatur.....	At large (Pres.).....	June 14, 1928	18	5
241	Rain, Francis Merrell.....	Nebraska.....	Aug. 31, 1928	19	0
409	Ramey, John William.....	Kentucky.....	June 22, 1928	19	10
83	Raring, George Louis.....	Pennsylvania.....	July 16, 1928	17	6
435	Raymond, William Henry, jr.....	North Dakota.....	June 19, 1928	18	0
394	Reader, Joseph Clyde, jr.....	Illinois.....	June 18, 1928	18	6
86	Reilly, James Vincent.....	New York.....	Aug. 1, 1928	19	4
*26	Reiter, Harry Lee, jr.....	Colorado.....	July 17, 1928	18	7
192	Rhoads, Norwood Brouse, jr.....	Louisiana.....	do.....	19	9
262	Rice, George Frank.....	New Hampshire.....	June 18, 1928	19	1
120	Richards, William LeRoy.....	Missouri.....	July 9, 1928	17	6
315	Roach, John Paul.....	Texas.....	June 28, 1928	18	10
353	Robards, William Camp Fitz-Hugh.....	At large (Pres.).....	June 14, 1928	17	6
211	Roblin, Robert Downing.....	New York.....	June 15, 1928	17	3
449	Rodgers, James Macklin.....	Pennsylvania.....	July 16, 1928	19	5
193	Rogers, George Pearsall.....	Alabama.....	June 16, 1928	18	11

first year of their academic course, 528 members, June, 1929—Continued

Sea service in practice ships		Engineering and aeronautics	Mathematics	Electrical engineering and physics	English	Languages	Aptitude for service	Aggregate first year
Months	Days	Maximum						
		12	32	16	16	12	12	100
2	24	8.07	22.32	11.28	11.36	8.45	10.77	72.25
2	24	9.84	26.08	12.10	11.34	9.36	11.58	80.30
2	24	10.29	24.00	12.54	12.28	9.60	10.56	79.27
0	0	7.44	19.32	10.44	11.92	7.93	11.61	68.66
2	24	10.02	22.44	12.30	12.10	10.19	11.58	78.63
2	24	8.68	23.16	11.16	11.58	9.89	11.70	76.35
2	24	10.06	25.56	12.90	12.80	8.72	11.49	82.53
2	24	8.17	23.96	13.20	12.14	9.74	11.85	79.06
2	24	8.03	21.88	12.28	10.86	8.17	11.55	72.77
2	24	8.71	23.20	12.18	12.30	9.75	11.16	77.30
2	24	10.00	26.08	13.20	12.18	9.36	11.04	81.86
2	24	8.23	21.44	12.22	11.40	8.75	8.28	70.32
2	24	8.69	23.16	11.48	10.66	8.15	11.91	74.05
2	24	7.59	21.16	10.92	11.44	8.68	11.40	71.19
2	24	7.77	22.04	10.64	10.82	7.97	11.70	70.94
2	24	8.58	24.88	13.60	12.62	10.27	11.97	81.92
2	24	8.39	22.24	11.26	11.06	8.82	11.25	73.02
2	24	8.12	21.80	11.82	11.90	8.45	11.79	73.88
2	24	8.79	20.92	10.98	10.90	8.22	11.49	71.30
2	24	8.78	22.72	11.64	12.04	10.19	11.16	76.53
2	24	9.72	22.96	11.80	12.28	8.32	9.69	74.77
2	24	9.43	24.68	13.44	11.80	8.59	11.91	79.85
2	24	8.00	22.12	11.64	11.16	8.32	10.62	71.86
2	24	8.58	20.72	11.36	11.84	8.69	11.73	72.92
2	24	8.16	25.12	13.04	12.40	9.72	11.73	80.17
2	24	9.06	28.04	13.40	11.78	8.75	11.88	82.91
1	23	8.28	21.92	11.24	12.16	9.38	11.46	74.44
2	24	8.26	24.96	12.90	12.56	9.57	11.49	79.74
2	24	8.58	20.72	10.48	11.10	8.16	11.40	70.44
2	24	9.36	25.24	12.34	12.44	10.00	10.62	80.00
2	24	9.38	23.28	11.92	11.50	9.10	11.73	76.91
2	24	9.11	24.64	13.06	12.86	9.99	11.58	81.24
2	24	8.99	23.92	13.06	12.30	9.38	11.97	79.62
2	24	8.32	22.84	11.62	11.08	8.43	11.43	73.72
2	24	9.68	26.20	13.46	13.16	9.12	11.37	82.99
2	24	9.26	24.96	12.72	12.02	9.87	11.52	80.35
2	24	9.78	27.76	13.48	11.74	9.67	11.40	83.83
0	0	7.45	20.24	10.82	10.40	7.71	11.58	68.20
2	24	7.57	22.64	11.30	11.20	9.08	11.58	73.37
2	9	8.48	21.32	10.00	10.26	8.85	11.19	70.10
2	24	9.35	21.56	12.26	11.84	9.80	11.46	76.27
2	24	8.39	21.92	10.92	11.46	7.88	11.91	72.48
2	24	9.35	24.92	13.94	12.88	9.38	10.77	81.24
2	24	8.38	21.40	10.54	11.84	8.21	11.01	71.38
2	24	8.30	21.88	10.88	11.08	8.75	11.88	72.77
2	24	8.36	25.00	13.12	12.48	10.36	11.85	81.17
2	24	8.61	28.40	14.48	12.50	10.31	11.25	85.55
2	24	8.64	23.96	12.64	12.30	8.48	11.70	77.72
2	24	8.69	23.12	11.56	12.20	8.88	11.25	75.70
2	24	9.62	25.64	11.52	12.26	9.40	11.61	80.05
2	24	8.57	21.88	12.02	12.20	9.45	10.41	74.53
2	24	9.11	22.40	11.96	11.58	7.98	10.71	73.74
2	24	9.14	22.96	11.58	12.12	9.53	11.88	77.21
2	9	7.49	20.56	10.72	11.06	9.20	11.94	70.97
2	24	9.33	23.48	11.96	11.90	9.55	11.46	77.68

Merit roll of the midshipmen of the present third class (class of 1932), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission	
				Years	Months
r271	Ronan, Joseph Patrick.....	New York.....	June 20, 1928	20	0
232½	Rooney, George Arthur.....	Kansas.....	June 22, 1928	16	6
345	Rosen, Charles.....	do.....	June 14, 1928	19	8
65	Ross, Emmett Collins.....	Mississippi.....	Sept. 1, 1928	19	7
347	Ross, Robert Davis.....	Ohio.....	June 15, 1928	20	0
419	Roudebush, Jack.....	California.....	July 2, 1928	18	1
334	Rounds, Horace Priest.....	Massachusetts.....	July 9, 1928	19	2
434	Ruble, Harold Eustace.....	Minnesota.....	June 23, 1928	19	9
*11	Ruckner, Edward Aberle.....	New Jersey.....	July 9, 1928	18	8
100	Ruhlman, Fred Lee.....	Nebraska.....	June 14, 1928	19	3
294	Sampson, Norman John.....	Connecticut.....	July 9, 1928	18	9
130	Sargent, Harold Lazelle.....	Missouri.....	June 28, 1928	17	7
352	Saunders, John Charles.....	Louisiana.....	Sept. 1, 1928	20	0
r98	Schald, Edgar Herr.....	Indiana.....	June 25, 1928	19	7
328	Schall, Thomas Douglas, jr.....	Minnesota.....	July 23, 1928	17	11
*16	Schantz, Joseph Dise.....	Pennsylvania.....	June 16, 1928	17	10
309	Scherini, Otto Axel.....	Washington.....	Aug. 13, 1928	19	0
340	Schmidt, Maximilian Gmelich.....	Missouri.....	June 14, 1928	19	3
107	Schroeder, William Paul.....	Michigan.....	June 29, 1928	19	6
*1	Schultz, Floyd Bernard.....	do.....	June 15, 1928	17	6
495	Schwartz, Isador Joseph.....	Pennsylvania.....	June 29, 1928	19	6
*6	Schweitzer, Earl Snowden.....	do.....	Aug. 2, 1928	17	4
292	Scott, David Darwin.....	South Dakota.....	June 25, 1928	16	5
448	Scott, Reader Clarence.....	Illinois.....	July 6, 1928	18	11
240	Seager, John Wesley, jr.....	Minnesota.....	June 18, 1928	20	2
103	Seely, Harry Woodworth.....	New York.....	Sept. 28, 1928	19	1
317	Severs, Hugh Barret.....	Kentucky.....	Aug. 31, 1928	20	2
162	Shaw, Spencer Loraine.....	South Carolina.....	June 22, 1928	17	4
492	Shea, John Dwight.....	West Virginia.....	July 9, 1928	17	5
212	Shelton, Howard Edward, jr.....	Kentucky.....	June 22, 1928	18	4
f500	Sheridan, Hugh Lewis.....	Pennsylvania.....	Sept. 1, 1928	18	11
465½	Sherwin, Thornton.....	do.....	June 21, 1928	19	0
80	Shinn, Allen Mayhew.....	California.....	July 11, 1928	20	1
230	Short, William Byfield, jr.....	New York.....	June 15, 1928	19	5
430	Short, Wallace Clark, jr.....	do.....	July 23, 1928	19	4
397	Shovestul, Paul James.....	Pennsylvania.....	June 28, 1928	19	3
241	Shumway, DeWitt Wood.....	New York.....	June 21, 1928	18	8
198	Silverstein, Max.....	Illinois.....	June 18, 1928	17	4
111	Simmers, Clayton Rogers.....	Pennsylvania.....	June 16, 1927	19	8
32	Simpson, Robert Tate.....	Texas.....	Sept. 1, 1928	20	0
148	Slayden, Alvin Weems.....	Tennessee.....	June 22, 1928	19	2
49½	Small, Seldon Coblidge.....	New York.....	June 15, 1928	18	5
456	Smiley, Clare Brown.....	Alabama.....	June 22, 1928	16	5
456	Smith, Charles Hubert.....	Georgia.....	June 15, 1928	17	8
256	Smith, Daniel Flecher, jr.....	Texas.....	Sept. 1, 1928	18	5
91	Smith, Howard Elmer.....	New York.....	June 16, 1928	16	11
245	Smith, John Bernard.....	Massachusetts.....	June 22, 1928	19	3
312	Smith, James Gene.....	Missouri.....	June 18, 1928	17	11
376	Smith, Lawrence.....	New York.....	June 25, 1928	19	5
310	Smith, Levering.....	Illinois.....	June 18, 1928	18	3
149	Smith, Lewis Oscar, jr.....	West Virginia.....	June 15, 1928	17	7
229	Smith, Reynolds C.....	Michigan.....	do.....	19	3
316	Smyth, Lawrence William.....	Indiana.....	June 18, 1928	19	2
284	Snowden, Ernest Maynard.....	North Carolina.....	June 29, 1928	17	1
277	Snyder, Philip Leroy.....	Ohio.....	July 9, 1928	18	3

first year of their academic course, 528 members, June, 1929—Continued

Sea service in practice ships		Engineering and aeronautics	Mathematics	Electrical engineering and physics	English	Languages	Aptitude for service	Aggregate first year
Months	Days	Maximum						
		12	32	16	16	12	12	100
2	9	8.09	21.52	12.08	12.14	10.06	11.64	75.53
2	24	8.54	24.68	11.78	11.52	8.81	11.19	76.52
2	24	8.21	22.08	12.16	11.54	8.60	11.34	73.93
2	24	8.87	25.28	13.42	12.58	10.19	11.91	82.25
2	24	7.76	21.64	13.56	10.94	8.36	11.64	73.90
1	23	8.09	21.64	10.46	11.00	9.23	11.73	72.15
2	24	7.98	21.80	11.92	11.24	9.59	11.58	74.11
2	24	7.81	21.28	11.40	11.36	8.06	11.52	71.43
2	24	10.42	29.80	14.00	12.16	9.85	11.91	88.14
2	24	9.44	24.68	13.70	11.88	8.96	11.97	80.63
2	24	8.92	22.28	11.18	11.50	9.19	11.88	74.95
2	24	8.81	24.68	12.44	12.62	9.85	11.37	79.77
2	24	7.96	21.40	11.66	11.60	9.43	11.70	73.75
2	9	9.74	26.56	12.50	11.70	8.51	11.76	80.77
2	24	7.78	21.20	11.72	11.96	9.86	11.67	74.19
2	24	8.75	28.20	14.24	13.72	10.72	11.73	87.36
2	24	8.01	22.76	11.70	11.80	9.69	10.74	74.70
2	24	9.63	21.80	11.22	11.32	8.16	11.85	73.98
2	24	8.87	23.72	13.12	12.58	10.30	11.82	80.41
2	24	11.01	29.96	15.10	13.64	10.71	11.70	92.12
2	24	8.26	20.48	10.54	10.90	7.95	10.17	68.30
2	24	9.44	28.60	14.40	13.00	11.77	11.61	88.82
2	24	8.87	22.60	11.72	12.00	8.21	11.64	75.04
2	24	8.60	21.00	10.96	10.98	8.10	11.37	71.01
2	24	8.45	23.56	12.46	12.08	8.17	11.61	76.33
5	15	8.25	24.88	12.92	12.80	9.67	12.00	80.52
2	24	9.26	23.64	11.88	10.66	7.80	11.25	74.49
2	24	8.83	25.40	12.68	11.50	8.52	11.76	78.69
2	24	7.53	20.80	10.30	10.54	8.21	11.13	68.51
1	8	9.25	23.04	12.82	11.66	8.88	11.55	77.20
2	24	8.28	20.96	10.90	10.12	7.43	8.88	67.62
0	0	7.92	20.28	10.96	11.60	7.93	11.70	70.39
2	24	9.10	24.76	12.14	13.22	10.81	11.43	81.46
2	24	8.97	22.04	12.34	11.96	9.88	11.43	76.62
2	24	8.76	21.32	10.98	11.26	8.29	11.07	71.68
2	24	8.65	21.96	11.22	10.66	8.40	11.79	72.68
2	24	8.53	22.56	12.16	12.04	9.04	11.94	76.27
2	24	9.66	24.36	12.88	11.42	8.96	10.26	77.54
5	15	10.10	23.72	12.60	12.82	9.23	11.85	80.32
2	24	10.74	26.48	14.12	12.42	9.78	11.37	84.91
2	24	9.33	24.60	13.12	11.28	9.38	11.40	79.11
2	24	8.96	26.08	13.80	12.28	10.13	11.88	83.13
2	24	7.81	20.92	10.80	11.32	8.40	11.43	70.68
2	24	7.38	21.20	10.68	11.72	8.57	11.13	70.68
2	24	8.38	23.16	11.84	11.78	8.80	11.88	75.84
2	24	8.05	23.52	13.54	13.24	10.86	11.85	81.06
2	24	8.88	23.56	10.90	11.78	9.47	11.61	76.20
2	24	8.28	23.16	11.78	11.00	8.77	11.64	74.63
2	9	9.25	22.68	10.78	10.72	8.20	11.64	73.27
2	24	7.91	23.64	12.00	12.08	8.67	10.38	74.68
2	24	8.61	24.20	13.62	12.42	8.40	11.85	79.10
2	24	10.11	23.80	12.10	11.06	8.24	11.43	76.74
2	24	8.69	23.92	11.14	11.02	9.09	10.65	74.51
2	24	8.11	22.04	11.82	11.92	9.31	12.00	75.20
2	24	7.54	22.64	12.60	11.36	9.48	11.79	75.41

Merit roll of the midshipmen of the present third class (class of 1932), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission	
				Years	Months
*28	Sosnoski, Harry	Ohio	June 28, 1928	20	1
58	Soule, Rufus Albertson, 3d	Massachusetts	June 18, 1928	18	6
64	Spangler, John Gilmore	Nebraska	July 9, 1928	19	8
325	Speer, John Orin	Pennsylvania	June 28, 1928	20	1
179	Spiers, John Isidore Randall	New Jersey	July 31, 1928	16	11
194	Stannard, Wilford Tennyson	Connecticut	June 28, 1928	18	8
281	Starr, Marvin Tipton	Washington	June 29, 1928	19	10
270½	Stevenson, Gilbert Northrop	Nebraska	June 21, 1928	17	11
97	Stoner, Howard Fletcher	Indiana	June 22, 1928	17	8
134½	Strickler, Robert Lawrence	Oklahoma	Sept. 1, 1928	18	11
237	Stuart, William Aurand	West Virginia	July 6, 1928	18	8
365	Sturr, Henry Dixon	Michigan	July 9, 1928	18	5
4476	Styne, Dwight Evan	Hawaii	June 27, 1928	19	8
173	Sugarman, Charles Maurice	Oregon	Aug. 7, 1928	18	9
54	Sunderland, Morton	At large (Pres.)	June 14, 1928	17	5
472	Sutton, John Joseph	Illinois	July 6, 1928	19	3
121	Tagg, William Leonard	Nebraska	do	17	6
425	Taylor, Ennis Walter	Texas	June 28, 1928	19	10
385	Tennent, John Gardner, 3d	At large (Pres.)	June 14, 1928	18	6
152	Thomas, Donald Irving	Virginia	June 22, 1928	18	3
367	Thomas, James Alfred	Ohio	June 28, 1928	18	11
362	Thompson, Forest Carson	Indiana	June 18, 1928	19	9
210	Thompson, Joseph	Maine	June 22, 1928	16	11
4487	Todd, Ashford, jr	Alabama	June 14, 1928	17	5
305	Todd, Kenneth Stanley	Connecticut	June 15, 1927	18	10
118	Toft, James Cecil, jr	New Jersey	June 18, 1928	19	6
287	Townsend, Harry Edson	New York	June 15, 1928	18	10
144	Townsend, William Edward	Ohio	July 30, 1928	18	7
404	Tschirgi, Harvey Curtis	Iowa	June 29, 1928	20	2
266	Tucker, Augustine John, 2d	Pennsylvania	June 21, 1928	18	10
174	Turton, Howard Johnson	Connecticut	July 16, 1928	18	1
297	Tuttle, Magruder Hill	New Carolina	June 28, 1928	19	11
68	Underwood, Gordon Waite	Oregon	July 9, 1928	18	1
412	Underwood, Robert DuBois	At large (Pres.)	June 18, 1928	16	9
297	Utter, Harmon Tischer	Ohio	June 22, 1928	18	10
4454	Vaillancourt, Maurice Lesieur	New Hampshire	June 18, 1928	19	0
402	Van de Water, Donald Fremont	New York	July 7, 1928	20	2
203	Vandling, Robert Edward	Pennsylvania	July 17, 1928	18	11
89	Van Evera, John Rynier	Minnesota	June 29, 1928	16	10
206	Van Every, Salem Augustus, jr	North Carolina	July 9, 1928	17	7
478	Van Horne, George Ransom	Kentucky	Aug. 31, 1928	19	10
187	Vanous, William Winfield	Maryland	June 28, 1928	19	3
*18	Van Slyke, Francis Allen	Michigan	June 14, 1928	17	11
366	Van Slyke, John Rosser	Texas	June 19, 1928	18	2
307	Vaughan, Frederick Owen	P. A. 348 (Pres.)	June 15, 1928	19	8
393	Vaughan, John	Michigan	July 26, 1928	17	11
392	Von Woglom, Louis Ethan	West Virginia	June 21, 1928	18	9
124	Vorpahl, Arthur Henry	Wyoming	June 22, 1927	19	6
421	Vrooman, William Tayler	New York	June 19, 1928	17	7
209	Wagon, Lucien Edward	South Carolina	do	19	5
*4	Ward, Alfred Gustave	Alabama	June 28, 1928	19	7
284	Warder, Thomas Grayston	West Virginia	June 25, 1928	17	9
146	Warfield, Thomas Glover	Nebraska	July 6, 1928	18	10
*9	Waters, Odale Dabney, jr	Virginia	July 9, 1928	18	0
494	Weaver, Donald Andrew	Indiana	June 17, 1927	18	1

first year of their academic course, 528 members, June, 1929—Continued

Sea service in practice ships		Engineering and aeronautics	Mathematics	Electrical engineering and physics	English	Languages	Aptitude for service	Aggregate first year
Months	Days	Maximum						
		12	32	16	16	12	12	100
2	24	10.19	26.04	14.36	13.12	10.18	11.46	85.35
2	24	8.85	26.40	12.68	12.32	10.67	11.79	82.71
2	24	10.62	25.88	12.66	11.54	9.86	11.73	82.29
2	24	8.82	21.56	12.08	11.34	8.89	11.52	74.21
2	24	8.46	24.08	11.58	12.22	10.60	11.25	78.19
2	24	8.53	24.12	11.36	11.42	10.47	11.73	77.63
2	24	8.63	23.24	12.18	11.72	8.21	11.28	75.26
2	24	8.33	22.76	12.12	11.58	9.20	11.55	75.54
2	24	9.36	27.40	12.66	11.08	8.71	11.61	80.82
2	24	8.89	23.60	12.52	12.10	11.24	11.22	79.57
2	24	8.19	24.60	12.52	11.22	8.15	11.70	76.38
2	24	7.50	23.28	11.72	12.26	8.25	10.47	73.48
0	0	6.99	20.72	10.00	11.70	8.80	11.61	69.82
2	24	8.74	24.60	12.48	11.62	9.27	11.70	78.41
2	24	9.48	26.36	13.12	12.36	9.83	11.70	82.85
2	24	8.06	21.52	12.12	10.94	8.20	9.21	70.05
2	24	9.82	24.84	12.56	11.48	9.66	11.67	80.03
2	24	7.47	20.72	11.38	12.14	8.39	11.85	71.95
2	24	8.63	22.16	10.78	11.66	8.06	11.73	73.02
2	24	8.52	22.80	12.16	12.96	10.72	11.85	79.01
2	24	8.57	22.24	10.78	11.02	9.77	11.07	73.45
2	9	8.46	23.92	10.84	10.72	7.70	11.85	73.49
2	24	8.58	24.56	11.40	11.90	9.38	11.40	77.22
0	0	6.84	19.92	10.62	11.66	8.14	12.00	69.18
2	9	8.40	24.00	12.04	11.22	9.60	9.48	74.74
2	24	9.46	25.88	12.64	11.38	9.04	11.73	80.13
2	24	8.94	23.92	10.70	11.02	8.89	11.70	75.17
2	24	9.82	23.96	12.58	11.82	9.43	11.64	79.25
2	9	8.18	23.04	10.98	11.00	8.44	10.95	72.59
2	24	9.00	22.72	11.36	12.16	8.68	11.67	75.59
2	24	8.74	23.08	12.66	11.86	10.25	11.76	78.35
2	9	8.00	22.72	11.70	12.30	8.50	11.70	74.92
2	9	9.57	25.68	12.90	12.30	10.15	11.52	82.12
2	24	7.92	21.80	11.48	10.96	9.33	10.86	72.35
2	24	8.40	24.24	11.04	11.14	8.55	11.55	74.92
0	0	7.08	22.16	10.78	10.82	8.98	11.01	70.83
2	24	7.57	21.92	11.16	11.00	9.47	11.52	72.64
2	24	9.64	21.68	13.24	12.14	9.19	11.49	77.38
2	24	9.44	24.84	13.02	13.02	9.30	11.52	81.14
2	24	8.38	22.68	11.96	11.94	10.92	11.49	77.37
2	24	7.93	20.44	10.62	10.72	8.56	11.49	69.76
2	24	8.53	25.04	12.92	11.30	8.72	11.40	77.91
2	24	9.33	29.80	14.26	12.00	9.78	11.85	87.02
2	24	9.22	21.40	11.06	11.78	8.25	11.76	73.47
2	24	7.90	22.12	12.54	10.96	9.55	11.64	74.71
2	24	9.26	21.80	10.46	11.60	8.65	11.07	72.84
2	24	7.81	21.80	10.40	12.04	9.32	11.49	72.86
5	15	9.41	24.00	13.24	11.60	9.96	11.64	79.85
2	24	7.72	21.20	10.88	12.66	8.89	10.65	72.00
2	24	7.58	22.96	12.78	12.08	10.25	11.61	77.26
2	24	9.96	30.08	14.02	13.84	10.58	11.91	90.39
2	24	8.64	21.80	12.22	11.52	9.08	11.94	75.20
2	24	9.64	25.00	12.30	11.90	8.88	11.40	79.12
2	24	9.65	27.96	14.30	14.06	10.57	11.85	88.39
2	24	8.74	21.60	11.70	10.92	8.64	6.81	68.41

Merit roll of the midshipmen of the present third class (class of 1932), for the

Order of general merit for academic year	Names	State from which appointed	Date of admission	Age at date of admission	
				Years	Months
<i>10</i>	Webster, Donald Herbert.....	Colorado.....	June 29, 1928	18	4
<i>*27</i>	Weeks, Robert Harper	Massachusetts.....	June 14, 1928	18	6
137½	Wellings, Albert Aloysius.....	do.....	Aug. 10, 1928	19	7
<i>*10</i>	Weschler, Charles John	Pennsylvania.....	July 7, 1928	19	0
455	West, John Taliaferro.....	Maryland.....	July 16, 1928	18	11
249	Weston, Wallace Humphrey.....	Maine.....	June 22, 1928	19	11
468	White, Clarence Marbury, jr.....	Maryland.....	June 28, 1928	18	4
129	White, Theodore Harrison.....	New York.....	June 19, 1928	19	1
321	Widhelm, William John.....	Nebraska.....	July 2, 1928	20	0
431	Wigelius, Frank Edward.....	Washington.....	July 17, 1928	19	10
374	Wilder, Allison Francis Page.....	North Carolina.....	June 19, 1928	18	7
336	Wildner, Adolphe.....	New York.....	July 3, 1928	17	10
112	Willard, Chauncey Shearer.....	Florida.....	June 14, 1928	18	4
185	Williams, Paul Darwin.....	South Dakota.....	June 22, 1928	17	6
158	Williams, Richard Claggett, jr.....	Maryland.....	Aug. 27, 1928	17	9
178	Williamson, Lindsey.....	New York.....	July 9, 1928	19	4
301	Williamson, Marcus William.....	Minnesota.....	June 22, 1928	17	9
203	Williamson, Thomas Fort.....	Alabama.....	July 9, 1928	16	8
474	Williford, Vaughan Buford.....	do.....	June 28, 1928	18	11
145	Willson, John Joseph.....	Iowa.....	Aug. 2, 1928	19	4
162	Wilson, George Rees.....	Illinois.....	Aug. 31, 1928	17	11
<i>*15</i>	Wilson, Ronald Lee	do.....	June 18, 1928	18	7
112	Wilson, Ralph Martin.....	Pennsylvania.....	June 15, 1928	20	2
165	Wilson, William Ritchie.....	Illinois.....	July 9, 1928	17	6
238	Winter, William, jr.....	Michigan.....	June 21, 1928	18	0
223	Wintle, Jack William.....	Kansas.....	June 14, 1928	20	2
179	Witherow, Joseph Francis, jr.....	California.....	June 15, 1928	17	11
263	Wolsieffer, Frederick.....	New Jersey.....	June 28, 1928	19	11
155	Woodward, Edwin Charles.....	At large (Pres.).....	June 14, 1928	17	9
116	Wylie, Joseph Caldwell, jr.....	New Jersey.....	do.....	17	3
227	York, Harold Chester.....	Maine.....	June 28, 1928	19	2
188	Young, Melvin Thayer.....	Wisconsin.....	June 22, 1928	19	11
422	Young, Peter William.....	Ohio.....	July 24, 1928	18	1
439	Young, Robert Cummings.....	West Virginia.....	June 21, 1928	18	8
77	Zink, William Talbott, jr.....	Maryland.....	June 30, 1928	18	1

first year of their academic course, 528 members, June, 1929—Continued

Sea service in practice ships		Engineer- ing and aero- nautics	Mathe- matics	Electrical engineer- ing and physics	English	Languages	Aptitude for service	Aggregate first year
Days	Months	Maximum						
		12	32	16	16	12	12	100
0	0	-----	-----	-----	-----	-----	11.97	-----
2	24	9.76	26.28	13.06	13.58	10.74	11.94	85.36
2	24	8.95	24.16	12.76	12.20	9.76	11.61	79.44
2	24	9.29	28.24	14.32	13.74	10.65	12.00	88.24
2	24	8.07	21.52	11.54	10.66	7.84	11.16	70.79
2	24	8.98	21.52	13.38	11.48	8.68	11.94	75.98
0	0	7.77	21.56	10.42	10.78	7.82	11.85	70.20
2	24	8.50	25.96	12.34	11.80	9.30	11.88	79.78
2	24	8.43	23.44	12.96	10.98	8.39	10.23	74.43
2	24	8.34	21.24	11.18	11.70	8.66	10.53	71.65
2	24	8.22	22.52	11.40	10.98	8.44	11.82	73.38
2	24	8.18	21.36	12.12	11.50	9.02	11.91	74.09
2	24	10.04	24.92	12.94	12.32	8.62	11.46	80.30
2	24	8.54	23.20	12.36	12.78	9.99	11.07	77.94
2	24	8.14	23.64	11.54	12.84	10.71	12.00	78.87
2	24	10.63	22.56	10.90	11.80	10.57	11.76	78.22
2	24	8.51	22.24	11.86	11.98	9.67	10.53	74.79
2	24	8.79	25.24	11.06	11.74	9.12	11.43	77.38
2	24	7.83	20.80	11.78	11.26	7.99	10.17	69.83
2	24	9.34	25.00	11.60	11.40	10.03	11.85	79.22
2	24	8.26	22.92	12.96	12.62	10.32	11.61	78.69
2	24	9.24	28.80	14.06	13.10	10.45	11.85	87.50
2	24	8.84	25.12	13.90	11.98	8.76	11.70	80.30
2	24	8.96	22.88	12.78	12.64	9.91	11.46	78.63
2	24	8.94	21.80	13.14	12.30	8.41	11.76	76.35
2	24	8.39	23.96	12.66	12.28	8.02	11.46	76.77
2	24	8.14	23.32	12.36	12.56	10.44	11.37	78.19
2	24	8.56	22.16	11.14	12.02	10.31	11.46	75.65
2	24	9.08	23.08	11.78	13.00	10.03	11.94	78.91
2	24	10.39	25.80	11.24	11.80	9.48	11.46	80.17
2	9	7.79	21.52	10.68	11.44	8.43	11.70	76.81
1	23	8.63	23.12	13.10	11.78	9.63	11.61	77.87
2	24	7.61	21.32	11.16	10.96	9.09	11.85	71.99
2	24	8.32	20.96	10.90	11.06	8.17	11.82	71.23
2	24	9.63	25.32	13.36	12.36	9.22	11.76	81.65

Midshipmen of the fourth class (class of 1933), 622 members

[Letters in italics used opposite names in the following list refer to footnotes at bottom of this list only]

Names	Appointed from—	Date of admission	Age at date of admission	
			Years	Months
Abbot, Edward William	Texas	July 13, 1929	18	8
Acker, William David, jr.	South Carolina	June 24, 1929	17	9
Aiken, William Loughridge	Pennsylvania	July 8, 1929	19	3
Albiston, Louis Hathaway	Rhode Island	June 14, 1929	18	4
Allen, Morse	Iowa	July 5, 1929	19	4
Allen, Russell Bowes	Massachusetts	June 26, 1929	19	5
Anderson, Howard Wendell	Minnesota	July 5, 1929	17	11
Anderson, Robert Reed	Wisconsin	Sept. 14, 1929	19	2
Andrews, Haven Washburn	Vice President	June 20, 1929	19	4
Anthony, Robert Zachary Taylor	Tennessee	June 21, 1929	17	3
Aponick, Anthony Aloysius	Pennsylvania	July 15, 1929	18	1
Arnold, Frank Robert	California	June 14, 1929	18	8
Arnold, William Potter	Illinois	do	19	9
Ashworth, Frederick Lincoln	Massachusetts	July 12, 1929	17	6
Atherton, Harry Sheldon	do	July 15, 1929	19	6
Atwood, Harry, jr.	Illinois	July 11, 1929	18	1
Authier, Edward Eugene	Connecticut	June 13, 1929	18	7
Aymett, Julian Graves	Tennessee	June 18, 1929	18	8
Bailey, Joslyn Rigby	West Virginia	Aug. 2, 1929	17	11
Bailey, Wendell Ernest	North Dakota	June 17, 1929	17	10
Ballard, Nixon Leslie	Illinois	June 14, 1929	18	4
Balterman, George	do	June 24, 1929	17	6
Banzhaf, Henry Frederick	Wisconsin	July 5, 1929	17	10
Barclay, Kenneth James	Michigan	June 18, 1929	19	6
Barker, Christopher Sylvanus, jr. b.	North Carolina	Aug. 26, 1929	18	0
Barlow, Max Edward	Washington	June 18, 1929	19	11
Barnard, Lewis, jr.	Michigan	July 1, 1929	16	8
Barnes, Stanley Maitland	New Hampshire	July 29, 1929	16	11
Barnum, Robert Hudson	New York	June 17, 1929	18	8
Barr, James Barbour	do	July 9, 1929	18	6
Beam, James Llewellyn	Illinois	June 14, 1929	17	3
Beard, Norman Wycliffe	Tennessee	June 29, 1929	19	7
Beard, Thomas Wilson	Kentucky	June 14, 1929	18	6
Beardslee, William Walter	Michigan	July 1, 1929	19	1
Bedell, Porter Fryman	Texas	June 20, 1929	17	11
Belcher, Preston Randolph	Illinois	July 11, 1929	19	2
Bellinger, William Cotesworth Pinckney, jr. tb.	South Carolina	June 15, 1928	18	11
Bennett, Carter Lowe	Tennessee	July 5, 1929	19	11
Bertolet, Samuel	Pennsylvania	June 19, 1929	18	10
Best, Ethridge Charles	Texas	July 16, 1929	19	1
Bethea, James Stephen	Arizona	June 14, 1929	17	10
Bewick, James Voigt	Missouri	June 18, 1929	19	0
Beyer, Aaron Frederick, jr.	Pennsylvania	June 22, 1929	17	7
Bierer, Howard Troutman	Oklahoma	July 1, 1929	17	4
Bird, Horace Virgil	do	July 11, 1929	17	1
Black, Richard Thomas	California	June 28, 1929	18	6
Black, Thompson, jr.	New York	June 17, 1929	19	9
Blackburn, John Thomas	At large (Pres.)	do	17	0
Blakelock, Francis Luke	New York	June 18, 1929	16	3
Blakely, John Siler	Alabama	do	18	8
Blatchford, Walter Larned	Vice President	June 20, 1929	19	2
Blick, Charles Augustus	New Jersey	do	18	1
Blouin, Francis Joseph	Massachusetts	June 13, 1929	18	11

Midshipmen of the fourth class (class of 1933), 622 members—Continued

Names	Appointed from—	Date of admission	Age at date of admission	
			Years	Months
Bobo, Walter Sidney, jr.-----	Mississippi-----	July 1, 1929	18	7
Bogardus, Burton Willard-----	California-----	June 28, 1929	20	1
Bolles, Frank Crandall, jr.-----	Wyoming-----	June 20, 1929	19	5
Bollinger, Walter Henry William-----	Illinois-----	June 14, 1929	18	5
Bourland, Joseph Hunt-----	Texas-----	June 18, 1929	18	5
Bowen, Harold Gardiner, jr.-----	California-----	July 15, 1929	16	9
Bowen, Robert Oliver-----	Massachusetts-----	July 16, 1929	19	2
Bowling, Theodore Cheesebo- rough, jr.-----	Oklahoma-----	June 20, 1929	19	10
Bowman, Merle Francis-----	Pennsylvania-----	June 14, 1929	18	11
Breedon, Albert William 2d b.-----	New York-----	Aug. 26, 1929	19	10
Brittan, Theodore Harry-----	Ohio-----	June 26, 1929	18	10
Brown, Edwards-----	South Dakota-----	June 18, 1929	19	4
Brown, Francis Elwood-----	Nevada-----	June 21, 1929	18	1
Brown, James Oliver-----	Pennsylvania-----	June 18, 1929	19	6
Brown, Maurice Burton-----	North Dakota-----	June 17, 1929	18	7
Brownrigg, France Herbert-----	Florida-----	July 23, 1929	19	4
Bruning, Frederick William-----	New York-----	July 22, 1929	18	5
Bryde, Walter Joseph-----	do-----	July 1, 1929	18	10
Buck, Roy Garvin-----	Iowa-----	June 14, 1929	19	5
Buie, Paul Douglas-----	Georgia-----	do-----	20	2
Bulkeley, John Duncan-----	Texas-----	June 20, 1929	17	10
Bullock, James Earl-----	Ohio-----	July 20, 1929	18	10
Bunevich, Irving-----	New Jersey-----	June 17, 1929	17	11
Burks, Jesse Billy tb-----	Alabama-----	June 25, 1928	19	11
Burrow, James Barrington-----	Florida-----	June 21, 1929	18	5
Burton, Paul Willits-----	Pennsylvania-----	June 13, 1929	17	8
Caldwell, Clarence Mills-----	Oklahoma-----	July 1, 1929	18	9
Camera, Robert Snowden-----	New Jersey-----	July 5, 1929	20	3
Cameron, William Graham-----	Wisconsin-----	June 14, 1929	18	6
Campbell, Clifford Morgan b.-----	Washington-----	Aug. 26, 1929	20	4
Campbell, Earnest Goodrich-----	Nevada-----	June 29, 1929	18	1
Campbell, Harold William, jr.-----	West Virginia-----	July 22, 1929	17	1
Campbell, James Harry-----	Arkansas-----	June 26, 1929	18	1
Carter, Tim Lee-----	Kentucky-----	June 14, 1929	18	9
Carter, William Thomas b.-----	Illinois-----	Sept. 17, 1929	19	0
Chambers, Lester Smith-----	Alabama-----	July 8, 1929	17	5
Chambliss, Allan McLane-----	Maryland-----	July 31, 1929	17	8
Champe, Joseph Elbert-----	West Virginia-----	July 22, 1929	17	6
Chase, Jay Valentine-----	At large (Pres.)-----	June 13, 1929	18	7
Cheatham, Benjamin Ballard-----	Florida-----	June 18, 1929	18	7
Chilton, Edwin Harlan-----	Oregon-----	June 28, 1929	18	10
Christ, Harold Frank-----	Wisconsin-----	June 20, 1929	19	6
Christie, Warren Byron-----	Missouri-----	do-----	17	6
Christopher, Thomas Aloysius-----	New Jersey-----	June 17, 1929	18	1
Clark, Albert Hobbs-----	Maine-----	do-----	18	6
Clark, Walter Lucas, jr.-----	Vermont-----	July 1, 1929	17	3
Clementson, Merrill Kinsell b.-----	Pennsylvania-----	Aug. 26, 1929	19	6
Climie, James Fraser-----	Alaska-----	July 29, 1929	19	10
Cobb, James Outterson-----	California-----	June 28, 1929	19	6
Coffey, William Augustus-----	West Virginia-----	July 5, 1929	20	3
Cole, Everett Bush-----	California-----	June 28, 1929	19	2
Coleman, Garrett Steele-----	do-----	July 17, 1929	18	6
Coleman, Robert Benjamin-----	New York-----	July 6, 1929	19	10
Conley, William Joseph-----	Massachusetts-----	June 21, 1929	19	6
Connolly, Thomas Francis-----	California-----	July 1, 1929	19	8
Conwell, Lester Cameron-----	Iowa-----	June 14, 1929	18	8

Midshipmen of the fourth class (class of 1933), 622 members—Continued

Names	Appointed from—	Date of admission	Age at date of admission	
			Years	Months
Cooke, Elmer Rudolph	Arkansas	June 15, 1929	18	3
Cooper, Ernest Greene, jr	Maryland	June 14, 1929	18	5
Copeland, Richard Goodwin	Massachusetts	July 1, 1929	20	3
Costello, Joseph Patrick	New York	June 17, 1929	18	1
Coye, John Starr, jr	Delaware	June 14, 1929	18	2
Craven, Conrad Winfield	California	June 26, 1929	19	9
Crawford, Max Edward	Illinois	June 24, 1929	17	1
Crenshaw, William Graves, 3d	Virginia	June 18, 1929	18	8
Criswell, Robert Parker	California	June 14, 1929	19	9
Croghan, John Alvin <i>tb</i>	New York	June 22, 1928	19	11
Cronin, Paul Christopher	New Jersey	June 17, 1929	19	8
Crowder, Edwin Boggs <i>r</i>	Virginia	July 5, 1929	20	1
Crowell, Lorenzo Mayo, jr	Maine	June 17, 1929	19	7
Cumming, David Robert	Georgia	June 15, 1929	19	11
Cundiff, Charles Reed <i>b</i>	Kentucky	Aug. 26, 1929	20	2
Curtis, Robert William	Michigan	June 13, 1929	18	10
Curtze, Charles August	Pennsylvania	June 14, 1929	18	2
Cygon, John Armstrong	Kansas	June 20, 1929	17	0
Danenhower, John	New York	July 1, 1929	19	1
Davenport, Edgar Monroe	California	July 5, 1929	19	7
Davenport, Roy Milton	Kansas	June 14, 1929	20	0
Davis, David William, jr	Idaho	do	19	6
Davis, Lewis Milton, jr	New York	June 20, 1929	19	0
Davis, Nathaniel Burt, jr	Massachusetts	July 1, 1929	17	10
Davis, Ray	Louisiana	do	17	2
Daves, Robert Alden, jr	At large (Pres.)	June 13, 1929	17	7
Dawson, William Lockhart	Florida	do	19	3
Dees, Benjamin Woodall	Arkansas	June 14, 1929	20	0
DeMaria, Matthew	New Jersey	June 24, 1929	19	0
Denny, James Beattie	Kentucky	June 14, 1929	19	5
Denton, William Thomas	Texas	June 13, 1929	18	4
Derickson, Richard Barnett, jr	Washington	June 21, 1929	19	9
Dew, Irvin Lowell	Oregon	June 18, 1929	18	10
Dickinson, John Overton	Tennessee	do	18	6
Dietz, James Stratton	Ohio	July 1, 1929	18	3
Dillon, John Richard	Maine	July 15, 1929	18	4
Dillon, Richard Joseph, jr	New York	June 22, 1929	17	10
Dodson, Bennett Merritt	California	June 28, 1929	20	0
Dolan, Francis Arliegh	Minnesota	June 17, 1929	18	5
Donovan, Milton Daniel	California	Sept. 26, 1929	19	8
Drake, Francis Rodman	Oklahoma	June 18, 1929	20	0
Drescher, Carl George	Illinois	July 15, 1929	18	9
Driver, Orvil Leonard	California	June 28, 1929	18	2
Droom, Lawrence Kendall <i>r</i>	Tennessee	July 5, 1929	20	2
Drustup, Norman James	At large (Pres.)	June 13, 1929	17	1
Drysdale, Robert Drake <i>tb r</i>	Idaho	June 14, 1928	19	9
Duff, Howard Carlton	Texas	June 13, 1929	19	0
Duke, Paul Douglas	North Carolina	July 5, 1929	18	1
Dunagan, Glenn Lewis	New Mexico	June 25, 1929	19	11
Duncan, Charles Kenney	Kentucky	June 14, 1929	17	6
Duncan, Turner Alonzo <i>b</i>	Missouri	Aug. 26, 1929	19	8
Easton, Willard Arnold <i>b</i>	Rhode Island	do	19	1
Eberhardt, Joseph	New Jersey	June 26, 1929	20	1
Edwards, Albert Earl	Nevada	July 11, 1929	17	9
Elder, Adrian Maxwell	Iowa	June 24, 1929	17	9
Elliott, James Meacham	Michigan	June 13, 1929	20	2
Ellis, Paul Darnell, jr	Georgia	June 20, 1929	17	11

Midshipmen of the fourth class (class of 1933), 622 members—Continued

Names	Appointed from—	Date of admission	Age at date of admission	
			Years	Months
Ellison, James McMechan, jr. b..	Missouri.....	Aug. 26, 1929	19	5
English, Richard Barker.....	Pennsylvania.....	June 18, 1929	18	5
Enright, Joseph Francis.....	North Dakota.....	June 17, 1929	18	9
Erck, Leo Herman.....	Nebraska.....	June 24, 1929	19	10
Erwin, William Edward, jr.....	Colorado.....	June 19, 1929	20	3
Espenas, Arthur Krag.....	New York.....	June 13, 1929	19	6
Fair, Robert Eli.....	Ohio.....	Aug. 16, 1929	18	3
Farrow, Wayne Lewis.....	California.....	June 28, 1929	19	9
Farwell, Charles Bradford.....	Minnesota.....	June 13, 1929	17	8
Faunce, John Henry, jr.....	Pennsylvania.....	June 18, 1929	18	5
Fekete, Thomas Ford.....	Illinois.....	June 14, 1929	19	1
Ferguson, Glover Trenholm.....	Maryland.....	Aug. 27, 1929	17	2
Ferguson, James DuGue.....	do.....	July 2, 1929	18	10
Fielder, Charles William.....	Kansas.....	June 28, 1929	19	5
Fisher, Robert Slack r.....	New York.....	July 5, 1929	18	11
Fisher, William Wallace.....	Oklahoma.....	June 18, 1929	19	9
Fleischli, Clarence Aloysius.....	Illinois.....	June 29, 1929	19	3
Flint, Francis Cleland.....	New York.....	July 5, 1929	19	2
Fly, William Lafayette, jr.....	Missouri.....	June 21, 1929	18	6
Foerster, Robert Samuel.....	Illinois.....	July 5, 1929	18	4
Foote, Hugie Lee, jr.....	Mississippi.....	June 25, 1929	17	9
Fortune, James Hunter, jr.....	Ohio.....	June 18, 1929	18	0
Fortune, William Charles.....	New York.....	July 15, 1929	18	4
Foster, Everett Joseph.....	California.....	June 21, 1929	18	10
Fowler, Oliver Noah.....	Texas.....	June 18, 1929	17	10
Fowlkes, Edward Taylor.....	Alabama.....	July 1, 1929	18	3
Fox, Henry Hugo, jr.....	Missouri.....	June 17, 1929	16	5
Franklin, James Gilbert.....	Pennsylvania.....	June 20, 1929	17	11
Fredericks, Edward Herman Charles.....	North Dakota.....	do.....	17	4
Fritter, Charles Taylor.....	Ohio.....	July 11, 1929	19	11
Fuller, Donald Walker.....	Massachusetts.....	June 17, 1929	18	3
Fulmer, Herbert Samuel, jr.....	Missouri.....	July 5, 1929	17	1
Fulp, James Douglas, jr.....	South Carolina.....	July 1, 1929	18	10
Fulton, Raymond Lester.....	Pennsylvania.....	June 14, 1929	19	1
Funk, William Glunt.....	Colorado.....	June 24, 1929	18	6
Fusselman, Raymond Dennis.....	Ohio.....	June 18, 1929	18	9
Galantin, Ignatius Joseph.....	Illinois.....	June 13, 1929	18	9
Gallagher, Robert Anthony.....	Pennsylvania.....	June 18, 1929	19	4
Gallaher, Antone Renkl.....	Georgia.....	July 5, 1929	19	11
Gallery, Joseph Daniel.....	Massachusetts.....	July 9, 1929	17	5
Gambling, Norman William.....	New Jersey.....	July 8, 1929	18	6
Gamon, John Arthur, jr.....	Illinois.....	June 14, 1929	18	10
Garnett, Philip Weaver.....	do.....	June 20, 1929	18	0
Garrels, Robert Ernest.....	California.....	June 13, 1929	19	11
Garrison, Charles Ford.....	At large (Pres.).....	July 12, 1929	18	6
Garrott, Martin Ruch.....	New York.....	July 1, 1929	18	3
Garth, Craig Ransom.....	Missouri.....	June 18, 1929	19	11
Gazlay, Richard Clarke.....	Illinois.....	July 1, 1929	19	8
Geist, John Willard.....	Pennsylvania.....	June 26, 1929	20	0
Gibbons, Robert Martin.....	do.....	June 21, 1929	19	4
Gill, Frank Benton.....	Nevada.....	June 18, 1929	18	8
Girard, Clet Anthony, jr. b.....	Louisiana.....	Sept. 25, 1929	19	8
Glenn, Elmer Ford.....	Oregon.....	June 28, 1929	19	9
Gorman, Verne Dwight.....	Nebraska.....	June 18, 1929	18	11
Grady, James Bizzell.....	North Carolina.....	July 5, 1929	19	6
Graham, Luther Boyd.....	West Virginia.....	do.....	19	6

Midshipmen of the fourth class (class of 1933), 622 members—Continued

Names	Appointed from—	Date of admission	Age at date of admission	
			Years	Months
Grant, Carl Edward.....	Vermont.....	July 8, 1929	18	1
Green, John Cawley.....	P. A. 348 (Pres.)..	June 24, 1929	19	4
Gregor, George Donald.....	Pennsylvania.....	July 16, 1929	19	4
Grikscheit, Henry William.....	Michigan.....	July 15, 1929	18	5
Grimm, Edward Elias.....	Pennsylvania.....	July 8, 1929	18	7
Grossman, George Sample, jr.....	Delaware.....	June 14, 1929	17	5
Grubbs, DeWitt Clinton Tucker, jr.....	Kentucky.....	June 21, 1929	18	9
Hagemeister, Bruce Frederick....	Nebraska.....	June 28, 1929	19	5
Hahn, Henry Bentley.....	Texas.....do.....	do.....	19	3
Hall, David Kenneth.....	Ohio.....	June 17, 1929	19	1
Hamer, John Byron b.....	Maryland.....	Aug. 26, 1929	20	1
Hammond, Clement James.....	New York.....	June 17, 1929	17	11
Hampton, Isaiah Martin.....	Texas.....	June 18, 1929	18	8
Hanson, Murray.....	New Mexico.....	July 11, 1929	18	8
Happel, Frank Alexander.....	Maryland.....	July 5, 1929	18	4
Harby, Donovan Bowman.....	South Carolina.....	June 21, 1929	17	7
Hardman, Ward Forrest.....	Missouri.....	June 20, 1929	17	0
Harper, Richard Vaughan.....	do.....	June 13, 1929	18	7
Harper, Thaddeus Stevens, jr.....	do.....	June 17, 1929	19	2
Harris, Everett John.....	Indiana.....	June 22, 1929	17	8
Hartley, Kenneth James.....	New York.....	June 13, 1929	19	3
Hartman, Irvin Swander.....	Indiana.....	July 5, 1929	17	10
Haskins, Enrique D'Hamel.....	New York.....	June 13, 1929	17	4
Hastings, Burden Robert.....	Indiana.....	June 20, 1929	18	11
Hastings, Richard Ellis.....	Delaware.....	June 26, 1929	18	11
Hatcher, Julian Sommerville, jr. tb.....	At large (Pres.).....	June 14, 1928	17	1
Hayden, Eugene Benjamin.....	Kentucky.....	July 1, 1929	18	7
Hayden, Reynolds Howard.....	Maryland.....	July 5, 1929	18	1
Heath, Clinton Janes.....	North Dakota.....do.....	do.....	18	10
Heileman, Lawrence Frederick....	Iowa.....	June 14, 1929	18	10
Heinz, Luther Carl.....	Pennsylvania.....	July 8, 1929	17	1
Hessel, John Walter.....	Ohio.....	July 1, 1929	17	11
Hewitt, George Billings.....	Illinois.....	June 14, 1929	17	10
Higham, Marritt Stewart.....	Idaho.....	June 21, 1929	20	2
Hight, John Milton.....	Arizona.....	July 1, 1929	17	10
Hills, Blish Charles.....	Kansas.....	June 14, 1929	18	10
Hills, Ivan Gilbert b.....	Wisconsin.....	Aug. 26, 1929	20	2
Hird, Robert Calvin Howe.....	At large (Pres.).....	July 2, 1929	17	11
Hirtle, Allen Tremaine, jr.....	Missouri.....	July 1, 1929	16	7
Holladay, Douglas Stockton.....	Virginia.....	June 24, 1929	17	11
Holland, Harvison Catlin.....	Iowa.....	July 1, 1929	17	9
Honnold, Isaac Preston.....	Illinois.....	June 14, 1929	18	8
Houck, Ray Wallen.....	Kansas.....	June 28, 1929	18	8
Howard, Ezra Gleeson.....	Alabama.....do.....	do.....	18	5
Howard, John Marshall Bowyer.....	Maryland.....	July 5, 1929	17	5
Howell, William Smith.....	Illinois.....	July 1, 1929	18	5
Hudson, George Keith.....	Mississippi.....	June 21, 1929	17	9
Hunt, William Andrew, jr.....	North Carolina.....	July 1, 1929	19	5
Hunter, Edwin Ford, jr.....	Louisiana.....do.....	do.....	18	4
Hunter, Percival, jr.....	Illinois.....	July 29, 1929	19	10
Ifrig, Francis Othmar.....	Missouri.....	June 17, 1929	18	5
Ingels, Albert Clayton.....	Ohio.....	June 20, 1929	18	9
Ingling, Alan Lloyd.....	Pennsylvania.....	Aug. 12, 1929	18	9
Isely, Robert Henry.....	Kansas.....	June 24, 1929	19	6
Jackson, Charles Barzellious, jr.....	Arkansas.....	June 20, 1929	19	1

Midshipmen of the fourth class (class of 1933), 622 members—Continued

Names	Appointed from—	Date of admission	Age at date of admission	
			Years	Months
Jackson, Edward Frank	Massachusetts	June 21, 1929	18	11
Jacoby, Raymond Bernard	New York	July 1, 1929	19	1
Jahncke, Ernest Lee, jr.	Louisiana	June 18, 1929	16	10
James, Elliott Lindsay, jr.	Alabama	June 20, 1929	18	5
Jenkins, Robert John	Wisconsin	June 15, 1929	19	11
Johnston, Dewey George	Oklahoma	July 22, 1929	19	6
Jones, Arthur Collins	Kansas	do	18	9
Jones, Carlton Benton	Colorado	June 15, 1929	20	1
Jones, Floyd Ross	Wisconsin	June 20, 1929	16	11
Jones, James Elmer	Missouri	July 24, 1929	20	2
Jones, Thomas Arthur	Indiana	July 11, 1929	19	3
Jordan, James Langford	California	June 26, 1929	19	11
Jurika, Stephen, jr.	do	June 21, 1929	19	0
Kane, William Richard	do	June 14, 1929	18	0
Kastein, James George	Wisconsin	do	19	0
Kauffman, Draper Laurence	Ohio	Aug. 12, 1929	18	0
Keating, Robert Allen, jr.	Massachusetts	June 18, 1929	17	5
Kefauver, Russell	New York	June 21, 1929	17	10
Keller, Clarence Armstrong, jr.	Kansas	June 13, 1929	19	0
Kengla, William Archibald	District of Columbia	June 25, 1929	19	0
Kibbe, Richard Lucius	Florida	June 18, 1929	18	5
Kiergan, Nova Babb, jr.	Missouri	June 13, 1929	18	11
Kimball, Leland Porter, jr.	Pennsylvania	June 18, 1929	18	5
Kimbell, Henry Tyus, jr.	Oklahoma	June 20, 1929	19	3
King, Charles Emmett	Ohio	Aug. 19, 1929	17	2
Kirby, Charles Calvert	At large (Pres.)	June 13, 1929	18	2
Klinsmann, George Otto	North Dakota	June 20, 1929	18	10
Klopp, John Albert	Illinois	June 14, 1929	17	5
Knapp, Gerald Anton	Washington	June 28, 1929	19	1
Koch, George Price	Pennsylvania	July 1, 1929	19	0
Koenig, Joseph William	Louisiana	June 14, 1929	19	6
Kuehl, Howard Frank	Wisconsin	June 18, 1929	19	6
Kues, Paul Herman	New York	June 17, 1929	19	10
Kuhn, Lawrence Charles	Pennsylvania	June 18, 1929	18	10
Lacey, Donald Orr	South Dakota	do	19	5
LaCombe, Joseph Leer	Louisiana	June 15, 1929	20	1
Laird, George Hays, jr.	West Virginia	do	18	0
Lajoye, John Charles	Montana	June 21, 1929	18	6
Lambert, David	Massachusetts	June 13, 1929	17	1
Lane, Richard	Minnesota	June 20, 1929	17	6
Laughon, Willard Ross	West Virginia	July 5, 1929	18	5
Leach, Robert William	Massachusetts	July 11, 1929	18	4
Lee, Edward Percy, jr.	Kentucky	June 13, 1929	19	2
Lee, Lamar, jr.	Virginia	June 26, 1929	18	2
Lee, Robert Edward	Florida	June 25, 1929	18	11
Leffert, Burton Chester	Iowa	July 17, 1929	20	3
Lehman, John Samuel	Utah	Sept. 5, 1929	16	9
Leon, Hayden Louis	North Carolina	June 21, 1929	17	8
Lewis, Hugh Howard	Texas	July 17, 1929	18	9
Liessman, Emerson Oliver	North Dakota	June 13, 1929	19	3
Lindsay, Harry Meakin, jr.	New York	Aug. 19, 1929	19	1
Linson, Ross Garner	Nebraska	June 13, 1929	18	4
List, Frank Voris	Washington	June 28, 1929	19	3
Long, Elmer Cecil	Illinois	July 5, 1929	18	7
Long, Thomas Albert	California	July 15, 1929	19	3
Longshore, Frederick Kime	Pennsylvania	July 5, 1929	18	1

Midshipmen of the fourth class (class of 1933), 622 members—Continued

Names	Appointed from—	Date of admission	Age at date of admission	
			Years	Months
Lord, Edwin Elmer, 3d-----	Pennsylvania-----	July 31, 1929	18	6
Loughlin, Charles Elliott-----	P. A. 348 (Pres.)-----	June 21, 1929	19	4
Lovci, John Carter-----	California-----	June 28, 1929	18	11
Lucas, Samuel Brooks-----	West Virginia-----	Aug. 16, 1929	19	2
Lunsford, John Edgar-----	Tennessee-----	June 18, 1929	18	6
Luosey, Michael Joseph-----	Maine-----	July 23, 1929	17	3
Lyon, Thomas Emery-----	Kentucky-----	June 13, 1929	17	11
MacConnell, John Courtney-----	North Carolina-----	June 17, 1929	17	10
MacDonald, Harold Alexander-----	Pennsylvania-----	June 13, 1929	19	9
Macdonald, William Ruley-----	New York-----	June 20, 1929	16	8
MacIntosh, Donald Ehle-----	Massachusetts-----	June 13, 1929	18	9
MacKenzie, Michael Vincent-----	do-----	July 15, 1929	17	11
Mackintosh, John Attrill-----	Texas-----	June 24, 1929	19	8
Macpherson, Robert Anthony-----	New Mexico-----	June 17, 1929	19	1
Madden, Robert Bowman-----	Pennsylvania-----	June 24, 1929	16	10
Magnell, Alfred Thomas-----	Connecticut-----	June 26, 1929	18	1
Magoffin, Robert Earl-----	Missouri-----	June 17, 1929	19	7
Mahoney, Martin Joseph-----	Oklahoma-----	June 20, 1929	18	0
Majewski, Louis John-----	Illinois-----	June 13, 1929	18	6
Malayter, John Stephen b-----	New York-----	Aug. 26, 1929	20	2
Mandarich, Steve-----	California-----	June 14, 1929	18	3
Manning, Joseph Ignatius-----	Massachusetts-----	June 18, 1929	18	6
Marcy, Deane Sidney-----	Nebraska-----	June 17, 1929	18	8
Marks, Laurence Hall-----	Alabama-----	July 1, 1929	18	3
Marlowe, Robert Aloysius-----	California-----	June 29, 1929	18	10
Marshall, George Kossuth-----	Massachusetts-----	June 17, 1929	16	10
Martin, James Leo-----	do-----	July 1, 1929	17	10
Martineau, David Louis-----	Illinois-----	June 14, 1929	18	6
Martineau, Paul William-----	New York-----	July 15, 1929	18	5
Masters, James Marvin, jr-----	South Carolina-----	June 18, 1929	18	0
Masterton, Paul-----	New Jersey-----	July 8, 1929	17	6
Mathes, Samuel Rhea-----	Alabama-----	July 5, 1929	18	3
Maxwell, Thomas Lawson-----	Georgia-----	June 13, 1929	17	8
Mayberry, Dale-----	Kansas-----	do-----	20	2
Maynard, Harry Clark-----	Massachusetts-----	July 5, 1929	18	8
McAfee, Robert-----	New York-----	June 24, 1929	19	4
McAllister, John Anderson b-----	Georgia-----	Aug. 26, 1929	19	1
McCampbell, David-----	Florida-----	July 31, 1929	19	7
McCormack, John Joseph, jr-----	New York-----	June 17, 1929	17	1
McCormick, Nelson Calhoun-----	Texas-----	July 5, 1929	20	0
McCutchan, George Thurston-----	Indiana-----	do-----	18	7
McDougal, David Stockton-----	Minnesota-----	June 18, 1929	17	10
McEachern, Paul Theodore-----	Massachusetts-----	June 17, 1929	19	4
McGoff, John Edward-----	Rhode Island-----	July 5, 1929	18	6
McGoughran, Joseph Christopher-----	New York-----	July 5, 1929	19	1
McKibbin, Hugh Robert-----	Michigan-----	July 15, 1929	18	3
McKissack, Thompson Pope-----	Tennessee-----	June 18, 1929	18	9
McMaster, Fitzhugh-----	South Carolina-----	do-----	17	7
McMillan, Edward Bellamy-----	Michigan-----	Aug. 19, 1929	19	3
McMullen, Dillon Robert-----	Pennsylvania-----	July 5, 1929	19	5
McNeill, Chauncey-----	West Virginia-----	June 14, 1929	18	2
McNenny, Wilbur James-----	South Dakota-----	June 17, 1929	17	10
McRae, Robert Hamilton-----	Georgia-----	June 15, 1929	17	6
Meers, William Henry-----	New York-----	July 17, 1929	19	4
Meneke, Kenneth-----	do-----	July 5, 1929	20	1
Merrill, Ralph Standish-----	Florida-----	June 20, 1929	18	9
Metze, Albert Francis-----	Indiana-----	July 5, 1929	19	0

Midshipmen of the fourth class (class of 1933), 622 members—Continued

Names	Appointed from—	Date of admission	Age at date of admission	
			Years	Months
Metzger, Edward Francis	Massachusetts	June 26, 1929	19	0
Meyer, Bernard Henry	Florida	July 5, 1929	19	5
Militana, Salvatore Guiseppi	New York	June 17, 1929	20	0
Miller, Clayton Louis	Washington	June 14, 1929	18	5
Miller, Edwin Swain	Montana	June 21, 1929	18	7
Miller, George Harold	Indiana	June 14, 1929	17	11
Miller, Horace Sadler	Pennsylvania	June 21, 1929	18	5
Miller, William Irvin, jr.	Kansas	June 14, 1929	18	10
Mohan, Richard Lawrence	Massachusetts	July 15, 1929	18	1
Monroe, Henry Stone	do	June 21, 1929	19	5
Moore, Charles Leighton, jr.	Georgia	July 5, 1929	19	2
Moorer, Thomas Hinman	Alabama	June 13, 1929	17	4
Morgan, Charles Cushman	Pennsylvania	July 9, 1929	19	3
Morgan, John Chapman	Texas	July 5, 1929	19	1
Morrow, Guy Marion	Illinois	July 6, 1929	20	1
Morton, Thomas Howard	Missouri	June 15, 1929	17	3
Mosk, Milton Stanford	Texas	July 12, 1929	16	6
Mott, William Chamberlain	Rhode Island	July 16, 1929	17	10
Muirhead, Gavin Lawrence	Nebraska	June 28, 1929	20	2
Mullan, Hugh	New York	Oct. 5, 1929	17	11
Mumma, George Edwin	Iowa	July 5, 1929	18	4
Murphy, Frank James	do	June 21, 1929	18	3
Murphy, Gordon	North Dakota	June 17, 1929	17	1
Nelson, Edward Robert, jr.	Michigan	July 5, 1929	18	11
Nelson, Rollis Samuel <i>tb r</i>	North Dakota	June 23, 1928	17	11
Neupert, Karl Frederic	Oregon	July 1, 1929	16	8
Neville, Lawrence Robert	California	July 15, 1929	18	2
Newton, Walter Hughes, jr.	Minnesota	June 21, 1929	17	7
Norris, Thomas Edwin	Maryland	July 5, 1929	18	5
Nugent, Thomas Edward	New York	June 17, 1929	19	6
O'Brien, Gerald Davis	South Dakota	June 24, 1929	19	7
O'Connell, Thomas Paul	Massachusetts	July 1, 1929	20	1
O'Connor, Desmond Kiernan	Rhode Island	July 2, 1929	19	11
Ogden, James Robinson	Tennessee	July 5, 1929	18	3
Ogle, John Newman	Indiana	do	20	1
Olsen, Robert Irving <i>b</i>	Illinois	Aug. 26, 1929	19	8
Oren, John Birdsall	do	June 28, 1929	18	6
Overton, William Arthur	Kansas	June 14, 1929	19	6
Palmer, Jay Talisman	Texas	Sept. 17, 1929	19	8
Pasche, William	Illinois	June 14, 1929	18	7
Pattie, Samuel Howard	Texas	June 18, 1929	19	10
Patton, David Uriah	Alabama	June 20, 1929	17	7
Peckson, Alfredo	Philippine Islands	Aug. 29, 1929	19	3
Pegelow, Frederic George	Illinois	June 20, 1929	18	6
Pelling, Albert George	California	June 28, 1929	19	2
Peters, Thomas Videtto	Nebraska	June 17, 1929	19	10
Peterson, Frank James	New Jersey	July 6, 1929	20	1
Petrie, James Henry	Kansas	June 14, 1929	19	8
Phillips, John Lloyd, jr.	Virginia	July 5, 1929	19	3
Pickett, Ludwell Rector, jr.	Arkansas	June 14, 1929	17	8
Pihl, Royal Pearson	Massachusetts	July 5, 1929	18	11
Pike, Joseph William, jr.	North Carolina	July 8, 1929	17	11
Poor, Richard Longstreet	Louisiana	June 14, 1929	18	6
Porter, William Baxter	Pennsylvania	June 13, 1929	18	0
Post, Richard Jordan	At large (Pres.)	do	17	3
Powell, Isthmian Lovoya	Alabama	June 26, 1929	19	5

Midshipmen of the fourth class (class of 1933), 622 members—Continued

Names	Appointed from—	Date of admission	Age at date of admission	
			Years	Months
Pratt, William Veazie, 2d.....	At large (Pres.).....	June 13, 1929	17	0
Pray, Ralph Marble.....	California.....	June 28, 1929	19	2
Prentice, Joseph Rollin.....	Nebraska.....	June 17, 1929	18	5
Price, George Marvin.....	Florida.....	June 13, 1929	17	6
Prueher, Bertram Joseph.....	Wisconsin.....	July 1, 1929	16	10
Purdy, Frederick Warren.....	Florida.....	June 13, 1929	17	6
Pursley, David Irvin <i>ib r</i>	Pennsylvania.....	June 29, 1928	18	2
Pyle, Randolph Grant.....	Idaho.....	June 14, 1929	17	8
Rakow, William Magnus.....	Iowa.....	June 20, 1929	18	4
Ramee, John.....	North Dakota.....	June 28, 1929	17	7
Raymond, Reginald Marbury.....	Louisiana.....	June 15, 1929	17	1
Reday, Joseph Zoltan, jr.....	Massachusetts.....	July 15, 1929	17	9
Reedy, James Robert.....	Ohio.....	July 11, 1929	19	1
Reuland, Walter Philip.....	California.....	June 29, 1929	19	6
Reynolds, Thomas Flatley.....	Wisconsin.....	June 18, 1929	19	11
Rhea, Edward Sumpter, jr.....	Kentucky.....	June 22, 1929	18	9
Rich, Frank Eugene <i>r</i>	Massachusetts.....	July 5, 1929	18	4
Richards, Gilbert Haven, jr.....	Illinois.....	do.....	18	1
Riddell, Robert Southgate.....	New York.....	July 8, 1929	18	3
Rising, Alexander Benjamin.....	Minnesota.....	June 28, 1929	19	1
Robbins, Charles Bradford.....	Hawaii.....	July 1, 1929	17	10
Roberts, Charles Theodore.....	Washington.....	June 21, 1929	19	5
Roberts, Earl, jr.....	Missouri.....	June 17, 1929	20	1
Robertson, Charles Edward.....	New York.....	do.....	19	4
Robison, Clifford Ellsworth.....	New Mexico.....	July 2, 1929	19	8
Rockwell, James.....	Porto Rico.....	June 20, 1929	18	3
Roe, Jack Willhoit.....	Iowa.....	do.....	18	0
Roullard, George Dee.....	Idaho.....	June 14, 1929	19	0
Rousseau, Charles Louis.....	Ohio.....	June 20, 1929	19	1
Rowe, Hilary Cecil.....	Maryland.....	July 5, 1929	19	11
Rozea, Russell Edward.....	At large (Pres.).....	June 21, 1929	18	11
Rucker, Eldred Benson.....	South Dakota.....	June 19, 1929	19	10
Rumble, Henry Peterson.....	New Jersey.....	July 15, 1929	17	7
Russell, Baxter Leon.....	Arkansas.....	June 14, 1929	18	9
Ryan, Albert Francis, jr.....	New York.....	June 17, 1929	19	0
Samuels, Nelson Tindall.....	Maryland.....	June 21, 1929	19	8
Santmyers, Selby Krauss.....	Delaware.....	do.....	18	2
Sargent, Ralph Nelson, jr.....	New Jersey.....	June 13, 1929	18	9
Schade, Arnold Frederic.....	Connecticut.....	July 8, 1929	17	4
Schafer, Charles Edward.....	Wisconsin.....	July 1, 1929	17	0
Schmid, Henry Edward.....	Washington.....	June 28, 1929	19	11
Schmid, Wallace Andrew.....	do.....	do.....	19	0
Schneider, Earle Caffrey.....	At large (Pres.).....	Aug. 19, 1929	17	7
Schwab, Herbert Sidney.....	do.....	June 13, 1929	17	3
Schwartz, Frank Dewey.....	Kansas.....	June 14, 1929	18	7
Seagroves, Everett Edgar.....	Georgia.....	July 5, 1929	19	10
Searcy, Seth Shepard, jr.....	Texas.....	June 22, 1929	18	3
Seipt, William Edward.....	Maryland.....	June 21, 1929	19	11
Selby, Frank Gordon.....	Iowa.....	June 14, 1929	18	10
Shafer, William Edward.....	Ohio.....	July 22, 1929	18	0
Shannon, John.....	New Jersey.....	do.....	17	7
Sharpe, Herman Taft.....	New York.....	June 17, 1929	18	8
Shaul, Donald Robert.....	California.....	July 16, 1929	20	2
Shea, Thomas Vandermeer.....	Wisconsin.....	June 18, 1929	16	11
Shelby, Edward Ellis.....	Texas.....	do.....	18	10
Shellabarger, Martin Adam.....	Colorado.....	June 14, 1929	19	0
Shepherd, Albert Lee.....	Maine.....	June 20, 1929	19	1

Midshipmen of the fourth class (class of 1933), 622 members—Continued

Names	Appointed from—	Date of admission	Age at date of admission	
			Years	Months
Sheppard, Frederick William	Oregon	June 25, 1929	19	2
Sherman, Philip Kingsland, jr	Vermont	June 18, 1929	19	8
Shifley, Ralph Louis	Illinois	June 13, 1929	18	8
Shook, Kenneth Sydney	Pennsylvania	June 19, 1929	18	11
Shuffle, Edwin, jr	West Virginia	July 1, 1929	19	3
Sinclair, Francis Mead b	At large (Pres.)	Aug. 26, 1929	20	2
Slater, Frank Marcel	Massachusetts	June 13, 1929	18	0
Slayton, Morgan	New York	July 1, 1929	18	0
Smedley, Francis Joseph	Pennsylvania	June 19, 1929	19	3
Smith, Bert Leroy	Missouri	June 28, 1929	19	0
Smith, Clyde Edward r	Ohio	June 25, 1929	20	3
Smith, James Arthur b	Missouri	Aug. 26, 1929	18	6
Smith, Kerfoot Bainbridge	Ohio	July 5, 1929	18	9
Snider, Lewis Levi	South Dakota	July 22, 1929	19	1
Solier, Richard Lawrence r	Montana	June 20, 1929	18	5
Solier, Robert Harris	Ohio	June 18, 1929	19	6
South, Thomas Winfield, 2d	Rhode Island	June 20, 1929	18	8
Sowerwine, Owen Evans	New Jersey	June 17, 1929	16	11
Spahr, Otto William, jr	South Carolina	June 18, 1929	18	8
Spencer, Samuel Floyd	Georgia	June 20, 1929	17	7
Springer, Clarence Norris	Michigan	July 25, 1929	20	4
Stack, Gerald Francis	California	June 28, 1929	18	2
Stahl, Paul Ludwig	Connecticut	June 14, 1929	17	7
Staley, Joseph Jarlath	Ohio	June 18, 1929	18	4
Staley, Poyntell Caldebaugh, jr	Rhode Island	July 1, 1929	19	4
Stanley, Reuben Elliott	Wisconsin	June 21, 1929	20	1
Steel, Charles Louis	Oklahoma	June 18, 1929	18	11
Steinbeck, John Macaulay	Massachusetts	July 5, 1929	18	10
Stephan, David Richard	Minnesota	July 1, 1929	18	7
Stephans, Milton George	California	June 28, 1929	18	4
Stephenson, George Mills	Ohio	June 19, 1929	18	4
Stevens, Frank Edmund, jr. f	New York	July 6, 1929	20	1
Stevens, John Paul	Texas	June 20, 1929	17	3
Stevens, Lemuel Mussetter, jr	At large (Pres.)	June 13, 1929	17	1
Stevenson, Lewis Marion	New Mexico	do	20	0
Stewart, Henry James	Oklahoma	do	19	4
Stewart, John Wesley	Pennsylvania	June 24, 1929	18	4
St. Germain, Raymond John	Louisiana	June 14, 1929	18	7
Stocker, Louis John	Missouri	June 17, 1929	17	0
Strean, Bernard Max	Indiana	June 22, 1929	18	6
Strozier, Henry Harvey	Georgia	June 24, 1929	17	7
Stuart, John McCreery b	Kentucky	Aug. 26, 1929	19	10
Styles, Ralph Emerson	North Carolina	June 17, 1929	19	4
Styne, Dwight Evan tb	Hawaii	June 27, 1928	19	8
Sublette, William Harold	Colorado	June 26, 1929	19	9
Taylor, Rufus Lackland b	Missouri	Aug. 26, 1929	19	8
Tellefsen, Carl Robert b	Minnesota	Sept. 5, 1929	20	0
Temple, Edward Arthur	Texas	June 13, 1929	17	9
Thomas, Millener Weaver	Pennsylvania	June 24, 1929	18	1
Thompson, Raymond Webb, jr	Maryland	July 1, 1929	18	4
Thorn, Benjamin Franklin	West Virginia	June 21, 1929	17	5
Tiedeman, Carl	Iowa	June 14, 1929	18	1
Timmons, Thomas Jackson	Tennessee	June 28, 1929	19	6
Tinker, Frank Glasgow	Arkansas	do	19	11
Tinker, Malcolm Hoagland	Pennsylvania	June 20, 1929	19	11
Tinkle, Clarence Everett	Indiana	June 26, 1929	19	11
Titus, Jack Clarence	California	June 20, 1929	19	9

Midshipmen of the fourth class (class of 1933), 622 members—Continued

Names	Appointed from—	Date of admission	Age at date of admission	
			Years	Months
Todd, Ashford, jr. <i>tb</i>	Alabama.....	June 14, 1928	17	5
Tomamichel, Jack Jones.....	Nevada.....	June 28, 1929	18	7
Tonkin, Albert Hoyle.....	Wyoming.....	June 20, 1929	18	11
Travis, Charles William.....	Tennessee.....	July 23, 1929	17	4
Travis, Franklin Karl.....	Nebraska.....	June 28, 1929	19	2
Tucker, James Francis.....	Connecticut.....	July 5, 1929	19	0
Turnage, Theodore Carlyle, jr.....	North Carolina.....	June 13, 1929	17	9
Turner, Vernon Clark.....	Texas.....	June 18, 1929	17	9
Twigg, Donald Whitman.....	At large (Pres.).....	June 24, 1929	18	7
Tyler, Marshall Alvin.....	Rhode Island.....	July 11, 1929	18	10
Tyree, John Augustine, jr.....	Virginia.....	June 18, 1929	17	9
Unmacht, George Paul.....	Illinois.....	June 14, 1929	16	9
Vaillancourt, Maurice Lesieur <i>tb</i>	New Hampshire.....	June 18, 1928	19	0
Van Meter, William Joseph, jr.....	Kansas.....	June 14, 1929	19	4
Vaughan, James John.....	Illinois.....	June 26, 1929	19	0
Vogeler, Robert Alexander.....	New York.....	June 18, 1929	17	9
Vogeley, Theodore Robert.....	Pennsylvania.....	June 13, 1929	20	0
Von Weller, Harold John <i>b</i>	Georgia.....	Aug. 26, 1929	19	8
Wade, Sidney Scott.....	Illinois.....	July 6, 1929	19	9
Wagstaff, Ruben Eli.....	Utah.....	June 28, 1929	20	1
Wahlig, Frederick Henry.....	Connecticut.....	June 13, 1929	18	11
Waldron, Frederick Joseph.....	Massachusetts.....	June 29, 1929	19	5
Wallace, Paul Eugene.....	Washington.....	July 6, 1929	19	11
Walsh, Edward Cornelius.....	North Dakota.....	June 20, 1929	17	2
Walsh, John Edward, jr., <i>b</i>	Pennsylvania.....	Aug. 26, 1929	18	5
Walsh, James Warren.....	Massachusetts.....	June 17, 1929	18	2
Ward, Thomas Harrison.....	North Carolina.....	July 1, 1929	18	8
Watkins, Robert E.....	Wyoming.....	June 20, 1929	20	0
Weaver, Isaac Tenison.....	Alabama.....	June 14, 1929	19	3
Webster, Donald Herbert, <i>tb r</i>	Colorado.....	June 29, 1928	18	4
Weeks, John Bradford.....	Pennsylvania.....	June 21, 1929	16	7
Weikel, Karl Frederick.....	Maryland.....	June 17, 1929	18	9
Weintraub, Paul Lawrence, jr.....	Pennsylvania.....	June 19, 1929	18	7
Welch, George Warren.....	do.....	June 18, 1929	19	6
Welch, Othal Cleveland.....	Arkansas.....	June 14, 1929	19	9
Weller, John Francis.....	New York.....	July 15, 1929	17	6
Wendelburg, George.....	Wisconsin.....	July 2, 1929	18	1
Wendt, Waldemar Frederick August.....	do.....	July 5, 1929	17	4
Wentz, Ned James.....	Colorado.....	June 28, 1929	19	6
Whip, Homer Robinette.....	Pennsylvania.....	June 18, 1929	18	6
White, Augustine Withers, jr.....	Alabama.....	June 13, 1929	19	7
White, Clarence Marbury, jr., <i>tb</i>	Maryland.....	June 28, 1928	18	4
White, Donald Elliot.....	New Jersey.....	June 17, 1929	17	10
White, John Duke.....	California.....	June 28, 1929	19	10
White, James Wilbur.....	Alabama.....	Aug. 26, 1929	19	1
White, Laurence Adams.....	California.....	June 28, 1929	19	7
White, Richard Daniel.....	Ohio.....	June 17, 1929	17	3
Wiggin, Bruce Eastman.....	New Hampshire.....	do.....	19	8
Wiggs, Robert Jackson, jr.....	Tennessee.....	June 18, 1929	20	3
Will, Robert Edgar Nichols.....	New Jersey.....	July 1, 1929	19	6
Williams, James Daniel, jr.....	Indiana.....	June 14, 1929	19	4
Williams, Joseph Warford, jr.....	do.....	June 21, 1929	18	0
Winston, Philip Wallace.....	West Virginia.....	June 18, 1929	18	2
Winters, Wilbur Robert.....	California.....	June 26, 1929	18	11
Wister, John Howard.....	New Jersey.....	June 20, 1929	18	0

Midshipmen of the fourth class (class of 1933), 622 members—Continued

Names	Appointed from—	Date of admission	Age at date of admission	
			Years	Months
Worthington, Francis Hardesty..	Colorado.....	June 14, 1929	17	9
Wright, Archie Taylor, jr.....	Texas.....	July 9, 1929	17	8
Wright, Gerald Roland.....	Kentucky.....	June 20, 1929	19	6
Wygant, Edward Guthrie.....	Oklahoma.....	Sept. 13, 1929	19	3
Yarnell, Philip.....	Iowa.....	June 21, 1929	18	11
Yost, Herbert Carl.....	Kansas.....	June 28, 1929	19	11
Zimmerman, Raymond Paul.....	-----do-----	June 14, 1929	19	6

b Readmitted; date given is date of readmission.

dd Died.

f Dismissed.

r Resigned.

tb Turned back from class of 1932.

SUMMARY OF MIDSHIPMEN AT UNITED STATES
NAVAL ACADEMY AT BEGINNING OF ACADEMIC
YEAR 1929-30 (SEPTEMBER 27, 1929)

First class (class of 1930).....	412
Second class (class of 1931).....	467
Third class (class of 1932).....	515
Fourth class (class of 1933).....	616
Total.....	2010

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APPOINTMENTS, DEATHS, RESIGNATIONS, ETC.

September 28, 1928, to October 31, 1929

SUMMARY OF CLASS OF 1929

Membership of graduating class, June 6, 1929..... 243

Commissioned ensigns, line..... 204

Commissioned ensigns, Supply Corps..... 4

Commissioned second lieutenants, United States Marine Corps..... 19

Graduated; resignations accepted due to physical disqualifications..... 13

Dropped..... 1

Did not graduate; required to resign..... 1

Turned back into next lower class on account of illness..... 1

Members of the class of 1929 (graduated June 6, 1929) appointed ensigns

[Arranged in order of merit for the completed course. Read first column, then second, etc.]

Webster, J. B.	Kabler, W. L.	Ray, H. L.
Baird, A. L.	Wilson, T. P.	Carver, L. P.
Farrin, J. M., jr.	Parish, E. W., jr.	Ferrier, D. T.
Pryor, K.	Denham, W. S.	Kirk, O. G.
Keatley, J. H.	Bacher, E. J.	Jackson, R.
Allen, W. C.	Laning, C. B.	McGinnis, R. D.
Richardson, L. E.	Canty, J. P.	Garland, G. P.
Shute, C. C.	Foley, P., jr.	Schreiber, E. T.
Trescott, C. E.	Berzowski, J. ¹	Johnson, R. L.
Wales, G. H.	Ricketts, C. V.	Strahorn, A. W.
Hiemenz, H. J.	Brownlee, R. C., 2d.	Hill, A. S.
Adamson, F. M.	Duborg, F. R.	O'Donnell, E. J.
Weakley, C. E.	Ramsbotham, R. J.	Collett, J. A.
Wait, D. E.	Lake, R. C.	Davidson, J. F.
Persons, H. S., jr.	Deiter, G. H.	Van Voorhis, B. A.
Junghans, E. A.	Dye, W. L.	Rodimon, W. S.
Anderson, S. C.	McClure, W. H.	Triebel, C. O.
MacFarlane, H. A.	Twohy, H. B.	Hannon, E. R.
Heinlein, R. A.	Ashford, G. W.	White, W. W.
Huff, G. L.	Perkins, A. C.	Hogle, R. D.
Morse, L. T.	Baldauf, L. C.	Walker, P. A.
Kent, T. E., jr.	Mains, M. C.	Watson, W. H.
Hinman, M. B.	Garner, H. R.	Akin, H. D.
McCoy, R. B.	Karrer, H. E.	Wilson, T. R.
Miller, C. L.	Lynch, R. C., jr.	McIntyre, L. E.
Wyatt, M. B.	Peterson, C. A.	Stephens, F. B.
Fox, L. O.	Fitzgerald, C. T.	Huelskamp, W. J.
Novak, F.	Folger, E. C., jr.	Martin, E. P.
Davison, J. W.	Waterhouse, J. W.	Marcy, C. C.
Gates, W. S.	Kennedy, M. G.	Patrick, G. S.
Moore, J. Raymond.	Hutchins, E. F.	Coe, B.

¹ Name changed to J. B. Berkley.

Benson, R. S.	Carmichael, G. K.	Butts, W. S.
Duval, J. B., jr.	Mitchell, F. P., jr.	Roughton, E.
Bernet, H. C.	McGregor, R. R.	Johnson, Carl A.
Yoho, J. R.	Arthur, W. S.	Brunton, C. E.
Butler, E. F.	Wilkinson, R. H.	Kohr, G. L.
Stone, L. T.	Carlson, D.	Johnson, F. J.
Kuhn, F. W.	Frank, N. J. F., jr.	Flatley, J. H., jr.
Beardsley, G. F.	Burke, E. J.	Foley, J. L.
Ballinger, R. R.	Jordan, F. D.	Sharp, G. A.
Easton, W. T.	Dennett, E. V.	Stovall, W. S., jr.
Briant, G. C.	Duvall, G. F.	McAlpin, J. V., jr.
Crichton, C. H.	Rembert, J. P., jr.	Simpler, L. C.
Frankel, S. B.	Gray, A. M.	Davison, T. W.
Jones, L. H.	Miller, A. J.	Hutchison, C. K.
Andrews, J., jr.	Cashman, W. A.	Stewart, C. W.
Mills, J. H., jr.	Loomis, A. E.	St. Angelo, A. R.
Tolley, K.	Denbo, R. W.	Giese, C. E.
Perreault, S. B.	Conley, E. G.	Armbrust, C. R.
Keeler, F. S.	Raby, J.	Miller, C. F.
McCauley, C. C.	Prause, J. H.	Brandley, F. A.
Buckalew, W. D.	Hood, A. H.	Visser, R. G.
Hall, F. E.	Woerner, P. L.	Hezlep, J. M.
Clark, R. N. S.	Rooney, R. S.	Hart, R. A.
Darnell, W. I.	Roth, E. A.	Osborn, P. R.
Galbraith, W. J.	Weiss, D. F.	Christie, C. G.
Epps, W. B.	Stephan, E. C.	McElroy, J. H.
Strong, S. C.	Britt, J. W.	Phillips, C. F.
Davis, R. P.	McRoberts, H. J.	Richter, W. J.
Birmingham, J. M.	Waltermire, W. G.	Wotton, A. H.
Coffin, H. N.	Lucas, A. D.	Mattie, D. L.
Hardin, J. T.	Fenton, C. R.	Dickinson, M. C.
Nelson, P. J.	D'Avi, J. A.	Bond, A. L.
Welsh, D. J.	Morgan, C. C.	Duffy, L. V.
Pennewill, W. E.	Walker, C. A., jr.	Stillman, D. F.
Greenamyer, L. K.	Nielsen, H.	Oliver, W.
Eller, D. T.	Martin, M. M.	Marchant, W. A.
Johansen, G. N.	Connell, R. J.	White, A. F.

Appointed second lieutenants in Marine Corps

Coleman, W. F.	Cone, G.	Roberts, C. C.
Lippert, F. G.	Johnson, C. W.	Ledbetter, O. C.
Murray, H. C.	Warfield, C. D.	Lang, H. C.
Schwable, F. H.	Sullivan, R. B., jr.	Bryson, W. F.
Dyer, E. C.	Griffith, S. B., 2d.	Lake, J. B., jr.
Brown, M. G.	Crist, R. F., jr.	Roberts, D. C.
Curry, M. L.		

Appointed ensigns in Supply Corps

Bush, B. H.	Cone, H. S.
Collins, E. C.	Meeker, C. A.

Deaths

Name and class	Date died
Bohlinger, Antoine Neill, jr., class of 1932.....	May 15, 1929
Drum, Andrew Boggs, jr., class of 1931.....	Aug. 4, 1929
Palmer, George Roberts, class of 1931.....	Sept. 3, 1929

Dismissals

Name and class	Date dismissed
Bouchard, Irvine Henry, class of 1929.....	Jan. 14, 1929
Orzechowicz, Walter, class of 1932.....	Dec. 7, 1928
Stevens, Frank Edmund, jr., class of 1933.....	Oct. 23, 1929
Welch, Eugene Moynahan, class of 1930.....	Mar. 4, 1929

Dropped

Name and class	Date dropped
Ford, William Everett, class of 1929.....	Sept. 9, 1929

Resignations

Name and class	Date resigned
Adams, William Allen, jr., class of 1932.....	May 15, 1929
Axelson, Karl Axel Sigfrid, class of 1931.....	June 10, 1929
Barker, Christopher Sylvanus, jr., class of 1932 <i>b</i>	Feb. 12, 1929
Bate, Kenneth Richard, class of 1931.....	Do.
Beers, Charles Eli, jr., class of 1932.....	June 6, 1929
Berueffy, Max, jr., class of 1931.....	Feb. 16, 1929
Bliss, Charles Fred, jr., class of 1932.....	Dec. 19, 1928
Breedon, Albert William, 2d, class of 1932 <i>b</i>	Feb. 12, 1929
Brewster, Willits Alden, class of 1930.....	Oct. 25, 1929
Brown, Winston Seaborn, class of 1929.....	June 6, 1929
Broyles, Horace Ney, class of 1932.....	Jan. 23, 1929
Burchett, Drury James, class of 1931.....	Nov. 22, 1928
Bush, Donald Porter, class of 1929.....	June 6, 1929
Bush, Harvey Augustine, class of 1932.....	Feb. 25, 1929
Byrd, Eugene Spafford, class of 1931.....	Dec. 3, 1928
Campbell, Clifford Morgan, class of 1932 <i>b</i>	Feb. 12, 1929
Canning, William Myles, class of 1929.....	May 29, 1929
Carmouche, Leonard Joseph, class of 1932.....	Feb. 12, 1929
Carter, William Thomas, class of 1932 <i>b</i>	Do.
Clark, Charles Ernest, class of 1932.....	Do.
Clementson, Merrill Kinsell, class of 1932 <i>b</i>	Do.
Close, Leslie Pinckney, class of 1930.....	June 19, 1929
Cohan, Fred Stanley, class of 1931.....	May 13, 1929
Connor, Paul Joseph, jr., class of 1932.....	Feb. 12, 1929
Coon, Denby O'Neill, class of 1931.....	Sept. 13, 1929
Crowder, Edwin Boggs, class of 1933.....	Oct. 14, 1929
Crumrine, J. Sanford, class of 1930.....	Feb. 12, 1929
Culbertson, William Linn, jr., class of 1932.....	Do.
Cundiff, Charles Reed, class of 1932 <i>b</i>	Do.
Dalton, Donald Henry, class of 1929.....	Do.
DeGraft, Robert William, class of 1930.....	Feb. 16, 1929
Dixon, Conrad Lee, class of 1932.....	Feb. 12, 1929
Dodson, Edwin Neil, class of 1929.....	June 6, 1929

Name and class	Date resigned
Doedeys, Andrew G., jr., class of 1932	Nov. 20, 1928
Dowling, Dean Berrow, class of 1929	June 6, 1929
Driver, James Russell, class of 1932	Feb. 12, 1929
Droom, Lawrence Kendall, class of 1933	Oct. 14, 1929
Drysdale, Robert Drake, class of 1933	Sept. 9, 1929
Duncan, Turner Alonzo, class of 1932 b	Feb. 12, 1929
Dunn, Robert Terrill, jr., class of 1932	Do.
Durrant, Dudley Arthur, class of 1931	Mar. 18, 1929
Duvall, Theodore Wannamaker, class of 1932	Apr. 11, 1929
Earl, Elliott, class of 1929	Dec. 20, 1928
Easton, Willard Arnold, class of 1932 b	Feb. 12, 1929
Ellison, James McMechan, jr., class of 1932 b	Do.
Engel, Roy Duffield, class of 1932	Do.
Enis, Thalbert Wright, class of 1930	Dec. 13, 1928
Fisher, Robert Slack, class of 1933	Oct. 15, 1929
Fleming, James Ernest, class of 1931	Dec. 6, 1928
Garrett, Kenneth Howard, class of 1929	June 6, 1929
Gilligan, John Nicholas, class of 1932	Feb. 12, 1929
Girard, Clet Anthony, jr., class of 1931 b	Sept. 13, 1929
Gould, Paul Dawson, class of 1930	Mar. 25, 1929
Grantham, Robert Leven, class of 1932	Feb. 12, 1929
Greene, Edward Everett, class of 1932	Do.
Greenwood, Raymond James, class of 1932	Do.
Gundlfinger, George Joseph, jr., class of 1931	Apr. 25, 1929
Hamer, John Byron, class of 1932 b	Feb. 12, 1929
Hanby, Elmus Knowles, jr., class of 1932	Do.
Harney, Paul Theadore, class of 1932	Do.
Harris, Marvin Luther, jr., class of 1931	June 12, 1929
Hart, Adam Byrd, class of 1932	Feb. 12, 1929
Hartman, Joseph Anthony, class of 1930	May 29, 1929
Hastings, William Thomas, jr., class of 1929	June 6, 1929
Hedekin, Edwin Charles, class of 1931	Oct. 3, 1928
Hendren, Clement Manly, class of 1932	Feb. 12, 1929
Hendrickson, Joseph Frank, class of 1932	Do.
Hills, Ivan Gilbert, class of 1932 b	Do.
Hodge, James Winston, class of 1931	Apr. 11, 1929
Hollowell, Frank Derickson, class of 1932	Feb. 12, 1929
Hubbard, Harry Jenkins, class of 1932	Do.
Hughes, John Whitson, class of 1932	Do.
Humphrey, Pat List, class of 1929	June 6, 1929
Hutchison, Howard Benton, class of 1930	Dec. 13, 1928
Johnson, Everett Royal, class of 1929	Dec. 7, 1928
Joyner, John Wheeler, class of 1932	Feb. 12, 1929
Kennedy, George Washington, jr., class of 1932	Jan. 18, 1929
Kerwin, Orville Pooley, class of 1932	Apr. 11, 1929
Keyes, Raymond Stedman, jr., class of 1929	June 6, 1929
Kvenvold, Hildor Clayton, class of 1931	Apr. 11, 1929
Larson, Clifford, class of 1932	Jan. 23, 1929
Lawrence, Robert Jay, class of 1932	Feb. 12, 1929
Levenson, Herbert, class of 1931	Feb. 20, 1929
Lincoln, Samuel Ankeney, jr., class of 1929	June 25, 1929
Livingston, Philip Kitching, jr., class of 1931	Feb. 12, 1929
Love, Madison Chase, class of 1930	Do.

Name and class	Date resigned
Lucas, William Ernest, class of 1931	Jan. 31, 1929
Lyle, Charles Travis, class of 1932	Feb. 12, 1929
Lyman, Edward Franklin, class of 1931	Apr. 11, 1929
Lynch, Gilbert Irving, class of 1931	Feb. 12, 1929
Malayter, John Stephen, class of 1932 b	Do.
Malina, Stephen, class of 1932	Do.
Mallonee, James Elbert, class of 1931	Jan. 22, 1929
Massey, Costello Page, class of 1932	Feb. 12, 1929
Mathers, Albert Lowell, class of 1931	Aug. 29, 1929
McAllister, John Anderson, class of 1932 b	Feb. 12, 1929
McCain, George Holmes, class of 1932	Do.
McCalla, John Wayne, class of 1932	Dec. 7, 1928
McLaughlin, Harold Vincent, class of 1931	June 7, 1929
Meyer, George William, class of 1932	Feb. 12, 1929
Miller, George Washington, class of 1930	Jan. 9, 1929
Mitchell, Alva Edwin, class of 1930	May 29, 1929
Moore, Clarence Joseph, class of 1929	June 6, 1929
Morris, Samuel Woodson, jr., class of 1932	Jan. 23, 1929
Nash, Herbert, class of 1929	June 6, 1929
Nelson, Hugo Adolphus, class of 1929	July 17, 1929
Nelson, Laurence Vaughan, class of 1931	Apr. 11, 1929
Nelson, Rollis Samuel, class of 1933	Aug. 13, 1929
Noyes, William Harbert, class of 1932	Feb. 12, 1929
O'Brien, Francis Joseph, class of 1932	Sept. 14, 1929
Odquist, George Paul, class of 1930	Oct. 2, 1928
Olsen, Robert Irving, class of 1932 b	Feb. 12, 1929
Partridge, William Thomas, jr., class of 1932	Apr. 11, 1929
Pescatello, Michael John, class of 1931	Feb. 12, 1929
Peters, Arthur Albert, class of 1932	Apr. 11, 1929
Petersen, Carl Christian, class of 1932	Feb. 12, 1929
Pickard, Allan Wright, class of 1932	Do.
Pihl, Frederick Wilson, class of 1931	June 12, 1929
Pilcher, Marshall Raymond, class of 1930	Mar. 13, 1929
Pippitt, Frank Chamberlain, class of 1931	Feb. 12, 1929
Pragnell, William Henry, jr., class of 1932	Feb. 20, 1929
Pugh, Luther Samuel, class of 1932	Dec. 22, 1928
Purdy, George Irwin, class of 1931	Oct. 6, 1928
Pursley, David Irvin, class of 1933	Sept. 3, 1929
Replogle, Josef Francis, jr., class of 1931	Apr. 11, 1929
Rich, Frank Eugene, class of 1933	Sept. 30, 1929
Richards, James Francis, class of 1932	Dec. 27, 1928
Robey, William Emmett, class of 1932	Jan. 4, 1929
Ronan, Joseph Patrick, class of 1932	Aug. 15, 1929
Roper, Francis Davis, class of 1932	Feb. 12, 1929
Sanders, Virgil Perry, class of 1932	Dec. 19, 1928
Schaid, Edgar Herr, class of 1932	Sept. 20, 1929
Schlegel, George, 3d, class of 1931	Apr. 11, 1929
Schreiter, Frederick Richard, class of 1932	Dec. 18, 1928
Schucart, Ralph Harry, class of 1932	Feb. 12, 1929
Schulte Joseph Anthony, class of 1930	Sept. 14, 1929
Scott, Bruce Von Gerichten, class of 1932	Feb. 12, 1929
Sedore, Jester John, class of 1932	Dec. 7, 1928
Sefcsik, Louis Joseph, class of 1931	June 17, 1929

Name and class	Date resigned
Selin, George Harold, class of 1932.....	Nov. 20, 1928
Shellberg, William Cantrell, class of 1932.....	Feb. 12, 1929
Sheridan, Hugh Lewis, class of 1932.....	Sept. 13, 1929
Simonson, Edward Phillips, class of 1932.....	Sept. 28, 1928
Sinclair, Francis Mead, class of 1932 <i>b</i>	Apr. 11, 1929
Smith, Clyde Edward, class of 1933.....	Oct. 22, 1929
Smith, James Arthur, class of 1932 <i>b</i>	Feb. 25, 1929
Smith, Maurel Ricks, class of 1930.....	Oct. 19, 1928
Snoeyenbos, Lee Christian, class of 1932.....	Feb. 12, 1929
Solem, Richard Lawrence, class of 1933.....	Aug. 27, 1929
Still, John Webber, class of 1932.....	Feb. 12, 1929
Stout, Kenneth Shirley, class of 1931.....	Do.
Stuart, John McCreery, class of 1932 <i>b</i>	Apr. 12, 1929
Taylor, Kirkbride Coutant, class of 1931.....	Apr. 11, 1929
Tellefsen, Carl Robert, class of 1932 <i>b</i>	Feb. 25, 1929
Von Weller, Harold John, class of 1932 <i>b</i>	Do.
Walker, Hiram Street, jr., class of 1929.....	June 6, 1929
Walsh, John Edward, jr., class of 1932 <i>b</i>	Apr. 11, 1929
Webster, Donald Herbert, class of 1933.....	Sept. 3, 1929
Wheeler, Robert Higgins, class of 1932.....	Feb. 12, 1929
White, Carl Thurston, class of 1931.....	Feb. 2, 1929
Winters, Frederick Charles, jr., class of 1931.....	Feb. 12, 1929
Wooding, Walter Harrison, class of 1932.....	Do.
Young, Peter William, class of 1932.....	Oct. 15, 1929

Retained in next lower class

Name	Date turned back
Bellinger, William Cotesworth Pinckney, jr., class of 1932 to class of 1933.....	May 29, 1929
Brewster, Willits Alden, class of 1929 to class of 1930.....	June 1, 1929
Burks, Jesse Billy, class of 1932 to class of 1933.....	Sept. 9, 1929
Croghan, John Alvin, class of 1932 to class of 1933.....	Do.
Drysdale, Robert Drake, class of 1932 to class of 1933 <i>r</i>	June 1, 1929
Gates, Albert Eugene, jr., class of 1931 to class of 1932.....	Apr. 8, 1929
Hatcher, Julian Sommerville, jr., class of 1932 to class of 1933.....	June 1, 1929
Hummer, Harry Cessna, class of 1930 to class of 1932.....	June 22, 1929
Maulsby, Robert John Costley, class of 1931 to class of 1932.....	Apr. 8, 1929
Nelson, Hugo Adolphus, class of 1929 to class of 1930.....	June 1, 1929
Nelson, Rollis Samuel, class of 1932 to class of 1933 <i>r</i>	May 29, 1929
Paradzinski, Alexander Joseph, class of 1931 to class of 1932.....	June 1, 1929
Phillips, Charles Edwin, class of 1931 to class of 1932.....	Do.
Porter, Samuel Henry, class of 1930 to class of 1931.....	Apr. 8, 1929
Pursley, David Irvin, class of 1932 to class of 1933 <i>r</i>	May 29, 1929
Styne, Dwight Evan, class of 1932 to class of 1933.....	Do.
Threlkel, Frank Hays, class of 1931 to class of 1932.....	June 1, 1929
Todd, Ashford, jr., class of 1932 to class of 1933.....	May 29, 1929
Vaillancourt, Maurice Lesieur, class of 1932 to class of 1933.....	Do.
Webster, Donald Herbert, class of 1932 to class of 1933 <i>r</i>	June 1, 1929
Westropp, Harold Patrick, class of 1929 to class of 1930.....	Apr. 8, 1929
White, Clarence Marbury, jr., class of 1932 to class of 1933.....	May 29, 1929

b Readmitted with class of 1933.*r* Later resigned.

Summer schedule, 1929, for midshipmen of the fourth class

PART I.—ROUTINE FROM JUNE 15 TO SEPTEMBER 2, 1929

Day	Company	Periods				
		First: 8 to 9.30 a. m.	Second: 10 to 11.30 a. m.	Third: 1.30 to 3 p. m.	Fourth: 3.15 to 4.30 p. m.	Fifth: 8 to 9.30 p. m. (note 6)
Monday	1, 3 2, 4	Rifle range Infantry	Rifle range Gymnasium	Seamanship Engineering and aeronautics	Gymnasium Seamanship	Study (mass singing) (note 8) Do.
Tuesday	1, 3 2, 4	do Rifle range (note 2)	do Rifle range (note 2)	do Seamanship	do Gymnasium	English (Mahan Hall) (note 7). Do.
Wednesday	1, 3 2, 4	do Infantry	do Engineering and aeronautics	Executive do	Recreation do	Executive lecture (Recreation Hall). Do.
Thursday	2, 4 1, 3	do Rifle range	Gymnasium Rifle range	Engineering and aeronautics Seamanship	Seamanship Gymnasium	English (Mahan Hall). Do.
Friday	1, 3 2, 4	Ordnance Seamanship	Seamanship Ordnance	English Engineering and aeronautics	Engineering and aeronautics English	Study (mass singing) (note 8) Do.
Saturday	1, 3 2, 4	Infantry do	Gymnasium Chapel	Recreation do	Recreation do	Moving pictures (Mahan Hall). Do.
Sunday	2, 4 1, 3 2, 4	do do do	do do do	do do do	do do do	Study. Do.

Summer schedule, 1929, for midshipmen of the fourth class—Continued
PART II.—ROUTINE FROM SEPTEMBER 3 TO 12 M., SEPTEMBER 27, 1929

Day	Company	Periods				Fifth: 8 to 9.30 p. m.
		First: 7.50 to 9.45 a. m. (note 4)	Second: 9.55 to 11.55 a. m. (note 3)	Third: 1.05 to 2.45 p. m. (note 4)	Fourth: 3 to 4.30 p. m.	
Monday	1, 3----- 2, 4-----	Engineering and aeronautics. do.	Mathematics. do.	Languages. do.	Gymnasium. do.	Study. Do.
Tuesday	1, 3----- 2, 4-----	do. do.	do. do.	do. do.	Seamanship. do.	Do. Do.
Wednesday	1, 3----- 2, 4-----	Infantry. do.	do. do.	do. do.	Gymnasium. do.	Do. Do.
Thursday	1, 3----- 2, 4-----	Engineering and aeronautics. do.	do. do.	do. do.	Seamanship. do.	Do. Do.
Friday	1, 3----- 2, 4-----	do. do.	do. do.	do. do.	Gymnasium. do.	English (note 7). Do.
Saturday	1, 3----- 2, 4-----	Infantry. do.	Seamanship. do.	Recreation. do.	Recreation. do.	Moving pictures (Mahan Hall). Do.
Sunday	1, 3----- 2, 4-----	do. do.	Chapel. do.	do. do.	do. do.	Study. Do.

NOTES

- (1) The fourth class program changes on September 3. In the department of modern languages the first and third companies study Spanish, the second and fourth companies study French. Assignments to each language on entrance are permanent for the entire course. Assignments of the fourth class to battalions in the regiment for the academic year is made from the company with the corresponding number.
- (2) During week beginning August 26 schedule will be modified in that Tuesday, August 27, first and second periods, will be assigned to Infantry for competitive drills; in case of inclement weather to be postponed day by day until completed.
- (3) During Part II of schedule the first and fourth companies recite first hour of second period until September 15, thereafter the second and third companies recite first hour, same period. Companies that recite first hour of second period on Monday, Tuesday, Thursday, and Friday march directly from department of engineering and aeronautics to department of mathematics. The remaining companies march to Bancroft Hall and observe study hours.
- (4) All companies recite the full period.
- (5) Where a drill involving physical exercise is followed by a recitation period, the officer in charge of the drill will dismiss in sufficient time for a bath and the necessary change of clothing or uniform required for the recitation.
- (6) The fifth period during Part I will be utilized by midshipmen in studying U. S. Naval Academy Regulations and Manuals.
- (7) There will be a lecture on hygiene in Mahan Hall fifth period on July 30, August 20, and September 13.
- (8) Commencing July 1 there will be mass singing Mondays and Fridays from 7.40 to 8.30 p. m. until August 26 when the Intercompany Singing Competition will be held.
- (9) The medical department will give cowpox vaccination and antityphoid inoculation at 9 a. m. each Saturday to midshipmen not previously inoculated.

Summer schedule, 1929, for midshipmen of the second class

NOTE 1.—C. F. A.=Complete or continue forenoon assignments.

NOTE 2.—Midshipmen of the duty platoon who can be spared from duty will attend fourth period radio instruction.

DEPARTMENTS OF SEAMANSHIP AND FLIGHT TACTICS, NAVIGATION, AND ELECTRICAL ENGINEERING AND PHYSICS

Date	Platoon 1		Platoon 2	Platoon 3
	Squad A	Squad B		
COMPANY No. 1				
Monday, June 10:				
7.50 to 8.30 a. m.-----	Flight-----	Radio-----	Radio-----	Radio.
8.35 to 10.05 a. m.-----	do-----	Boat shed-----	Navigation-----	E. E. and P.
10.10 to 11.30 a. m.-----	Secure-----	Flight-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	do-----	Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation-----	Recreation.
Tuesday, June 11:				
7.50 to 8.30 a. m.-----	Flight-----	Radio-----	Radio-----	Radio.
8.35 to 10.05 a. m.-----	do-----	Boat shed-----	Navigation-----	E. E. and P.
10.10 to 11.30 a. m.-----	Secure-----	Flight-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	do-----	Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation-----	Recreation.
Wednesday, June 12:				
7.50 to 8.30 a. m.-----	Flight-----	Radio-----	Radio-----	Radio.
8.35 to 10.05 a. m.-----	do-----	Boat shed-----	Navigation-----	E. E. and P.
10.10 to 11.30 a. m.-----	Secure-----	Flight-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	do-----	Do.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	do-----	Do.
Date	Platoon 1	Platoon 2		Platoon 3
		Squad A	Squad B	
COMPANY No. 1—Continued				
Thursday, June 13:				
7.50 to 8.30 a. m.-----	Radio-----	Flight-----	Radio-----	Radio.
8.35 to 10.05 a. m.-----	Navigation-----	do-----	Boat shed-----	E. E. and P.
10.10 to 11.30 a. m.-----	do-----	Secure-----	Flight-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	do-----	Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation-----	Recreation.
Friday, June 14:				
7.50 to 8.30 a. m.-----	Radio-----	Flight-----	Radio-----	Radio.
8.35 to 10.05 a. m.-----	Navigation-----	do-----	Boat shed-----	E. E. and P.
10.10 to 11.30 a. m.-----	do-----	Secure-----	Flight-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	do-----	Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation-----	Recreation.
Saturday, June 15:				
7.50 to 8.30 a. m.-----	Radio-----	Flight-----	Radio-----	Radio.
8.35 to 10.05 a. m.-----	Navigation-----	do-----	Boat shed-----	E. E. and P.
10.10 to 11.30 a. m.-----	do-----	Secure-----	Flight-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	do-----	Do.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	do-----	Do.

*Summer schedule, 1929, for midshipmen of the second class—Continued*DEPARTMENTS OF SEAMANSHIP AND FLIGHT TACTICS, NAVIGATION, AND
ELECTRICAL ENGINEERING AND PHYSICS—Continued

Date	Platoon 1		Platoon 2	Platoon 3
	Squad A	Squad B		
COMPANY NO. 2				
Monday, June 17:				
7.50 to 8.30 a. m. -----	Flight.....	Radio.....	Radio.....	Radio.
8.35 to 10.05 a. m. -----	do.....	Boat shed.....	Navigation.....	E. E. and P.
10.10 to 11.30 a. m. -----	Secure.....	Flight.....	do.....	Do.
11.35 a. m. to 12.10 p. m. -----	Radio.....	do.....	do.....	Do.
1.30 to 3.30 p. m. -----	C. F. A.....	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m. -----	Recreation.....	Recreation.....	Recreation.....	Recreation.
Tuesday, June 18:				
7.50 to 8.30 a. m. -----	Flight.....	Radio.....	Radio.....	Radio.
8.35 to 10.05 a. m. -----	do.....	Boat shed.....	Navigation.....	E. E. and P.
10.10 to 11.30 a. m. -----	Secure.....	Flight.....	do.....	Do.
11.35 a. m. to 12.10 p. m. -----	Radio.....	do.....	do.....	Do.
1.30 to 3.30 p. m. -----	C. F. A.....	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m. -----	Recreation.....	Recreation.....	Recreation.....	Recreation.
Wednesday, June 19:				
7.50 to 8.30 a. m. -----	Flight.....	Radio.....	Radio.....	Radio.
8.35 to 10.05 a. m. -----	do.....	Boat shed.....	Navigation.....	E. E. and P.
10.10 to 11.30 a. m. -----	Secure.....	Flight.....	do.....	Do.
11.35 a. m. to 12.10 p. m. -----	Radio.....	do.....	do.....	Do.
1.30 to 3.30 p. m. -----	Recreation.....	Recreation.....	Recreation.....	Recreation.
3.30 to 5.30 p. m. -----	do.....	do.....	do.....	Do.

Date	Platoon 1	Platoon 2		Platoon 3
		Squad A	Squad B	
COMPANY No. 2—Continued				
Thursday, June 20:				
7.50 to 8.30 a. m.	Radio.....	Flight.....	Radio.....	Radio.
8.35 to 10.05 a. m.	Navigation.....	.....do.....	Boat shed.....	E. E. and P.
10.10 to 11.30 a. m. ....	.....do.....	Secure.....	Flight.....	Do.
11.35 a. m. to 12.10 p. m. ....	.....do.....	Radio.....	.....do.....	Do.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.....	Recreation.
Friday, June 21:				
7.50 to 8.30 a. m.	Radio.....	Flight.....	Radio.....	Radio.
8.35 to 10.05 a. m.	Navigation.....	.....do.....	Boat shed.....	E. E. and P.
10.10 to 11.30 a. m. ....	.....do.....	Secure.....	Flight.....	Do.
11.35 a. m. to 12.10 p. m. ....	.....do.....	Radio.....	.....do.....	Do.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.....	Recreation.
Saturday, June 22:				
7.50 to 8.30 a. m.	Radio.....	Flight.....	Radio.....	Radio.
8.35 to 10.05 a. m.	Navigation.....	.....do.....	Boat shed.....	E. E. and P.
10.10 to 11.30 a. m. ....	.....do.....	Secure.....	Flight.....	Do.
11.35 a. m. to 12.10 p. m. ....	.....do.....	Radio.....	.....do.....	Do.
1.30 to 3.30 p. m.	Recreation.....	Recreation.....	Recreation.....	Recreation.
3.30 to 5.30 p. m. ....	.....do.....	.....do.....	.....do.....	Do.

*Summer schedule, 1929, for midshipmen of the second class—Continued*DEPARTMENTS OF SEAMANSHIP AND FLIGHT TACTICS, NAVIGATION, AND
ELECTRICAL ENGINEERING AND PHYSICS—Continued

Date	Platoon 1		Platoon 2	Platoon 3
	Squad A	Squad B		
COMPANY No. 3				
Monday, June 24:				
7.50 to 8.30 a. m. -----	Flight -----	Radio -----	Radio -----	Radio.
8.35 to 10.05 a. m. -----	do -----	Boat shed -----	Navigation -----	E. E. and P.
10.10 to 11.30 a. m. -----	Secure -----	Flight -----	do -----	Do.
11.35 a. m. to 12.10 p. m. -----	Radio -----	do -----	do -----	Do.
1.30 to 3.30 p. m. -----	C. F. A -----	C. F. A -----	C. F. A -----	C. F. A.
3.30 to 5.30 p. m. -----	Recreation -----	Recreation -----	Recreation -----	Recreation.
Tuesday, June 25:				
7.50 to 8.30 a. m. -----	Flight -----	Radio -----	Radio -----	Radio.
8.35 to 10.05 a. m. -----	do -----	Boat shed -----	Navigation -----	E. E. and P.
10.10 to 11.30 a. m. -----	Secure -----	Flight -----	do -----	Do.
11.35 a. m. to 12.10 p. m. -----	Radio -----	do -----	do -----	Do.
1.30 to 3.30 p. m. -----	C. F. A -----	C. F. A -----	C. F. A -----	C. F. A.
3.30 to 5.30 p. m. -----	Recreation -----	Recreation -----	Recreation -----	Recreation.
Wednesday, June 26:				
7.50 to 8.30 a. m. -----	Flight -----	Radio -----	Radio -----	Radio.
8.35 to 10.05 a. m. -----	do -----	Boat shed -----	Navigation -----	E. E. and P.
10.10 to 11.30 a. m. -----	Secure -----	Flight -----	do -----	Do.
11.35 a. m. to 12.10 p. m. -----	Radio -----	do -----	do -----	Do.
1.30 to 3.30 p. m. -----	Recreation -----	Recreation -----	Recreation -----	Recreation.
3.30 to 5.30 p. m. -----	do -----	do -----	do -----	Do.

Date	Platoon 1	Platoon 2		Platoon 3
		Squad A	Squad B	
COMPANY NO. 3—Continued				
Thursday, June 27:				
7.50 to 8.30 a. m. -----	Radio-----	Flight-----	Radio-----	Radio.
8.35 to 10.05 a. m. -----	Navigation-----	do-----	Boat shed-----	E. E. and P.
10.10 to 11.30 a. m. -----	do-----	Secure-----	Flight-----	Do.
11.35 a. m. to 12.10 p. m. -----	-----	Radio-----	do-----	Do.
1.30 to 3.30 p. m. -----	C. F. A-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m. -----	Recreation-----	Recreation-----	Recreation-----	Recreation.
Friday, June 28:				
7.50 to 8.30 a. m. -----	Radio-----	Flight-----	Radio-----	Radio.
8.35 to 10.05 a. m. -----	Navigation-----	do-----	Boat shed-----	E. E. and P.
10.10 to 11.30 a. m. -----	do-----	Secure-----	Flight-----	Do.
11.35 a. m. to 12.10 p. m. -----	-----	Radio-----	do-----	Do.
1.30 to 3.30 p. m. -----	C. F. A-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m. -----	Recreation-----	Recreation-----	Recreation-----	Recreation.
Saturday, June 29:				
7.50 to 8.30 a. m. -----	Radio-----	Flight-----	Radio-----	Radio.
8.35 to 10.05 a. m. -----	Navigation-----	do-----	Boat shed-----	E. E. and P.
10.10 to 11.30 a. m. -----	do-----	Secure-----	Flight-----	Do.
11.35 a. m. to 12.10 p. m. -----	-----	Radio-----	do-----	Do.
1.30 to 3.30 p. m. -----	Recreation-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m. -----	do-----	do-----	do-----	Do.

*Summer schedule, 1929, for midshipmen of the second class—Continued*DEPARTMENTS OF SEAMANSHIP AND FLIGHT TACTICS, NAVIGATION, AND
ELECTRICAL ENGINEERING AND PHYSICS—Continued

Date	Platoon 1		Platoon 2	Platoon 3
	Squad A	Squad B		
COMPANY No. 4				
Monday, July 1:				
7.50 to 8.30 a. m.-----	Flight.....	Radio.....	Radio.....	Radio.....
8.35 to 10.05 a. m.-----	do.....	Boat shed.....	Navigation.....	E. E. and P.
10.10 to 11.30 a. m.-----	Secure.....	Flight.....	do.....	Do.
11.35 a. m. to 12.10 p. m.-----	Radio.....	do.....	do.....	do.....
1.30 to 3.30 p. m.-----	C. F. A.....	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.-----	Recreation.....	Recreation.....	Recreation.....	Recreation.
Tuesday, July 2:				
7.50 to 8.30 a. m.-----	Flight.....	Radio.....	Radio.....	Radio.....
8.35 to 10.05 a. m.-----	do.....	Boat shed.....	Navigation.....	E. E. and P.
10.10 to 11.30 a. m.-----	Secure.....	Flight.....	do.....	Do.
11.35 a. m. to 12.10 p. m.-----	Radio.....	do.....	do.....	do.....
1.30 to 3.30 p. m.-----	C. F. A.....	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.-----	Recreation.....	Recreation.....	Recreation.....	Recreation.
Wednesday, July 3:				
7.50 to 8.30 a. m.-----	Flight.....	Radio.....	Radio.....	Radio.....
8.35 to 10.05 a. m.-----	do.....	Boat shed.....	Navigation.....	E. E. and P.
10.10 to 11.30 a. m.-----	Secure.....	Flight.....	do.....	Do.
11.35 a. m. to 12.10 p. m.-----	Radio.....	do.....	do.....	do.....
1.30 to 3.30 p. m.-----	Recreation.....	Recreation.....	Recreation.....	Recreation.
3.30 to 5.30 p. m.-----	do.....	do.....	do.....	Do.
Thursday, July 4-----	Holiday			

Date	Platoon 1	Platoon 2		Platoon 3
		Squad A	Squad B	
COMPANY No. 4—Continued				
Friday, July 5:				
7.50 to 8.30 a. m.-----	Radio.....	Flight.....	Radio.....	Radio.....
8.35 to 10.05 a. m.-----	Navigation.....	do.....	Boat shed.....	E. E. and P.
10.10 to 11.30 a. m.-----	do.....	Secure.....	Flight.....	Do.
11.35 a. m. to 12.10 p. m.-----	do.....	Radio.....	do.....	do.....
1.30 to 3.30 p. m.-----	C. F. A.....	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.-----	Recreation.....	Recreation.....	Recreation.....	Recreation.
Saturday, July 6:				
7.50 to 8.30 a. m.-----	Radio.....	Flight.....	Radio.....	Radio.....
8.35 to 10.05 a. m.-----	Navigation.....	do.....	Boat shed.....	E. E. and P.
10.10 to 11.30 a. m.-----	do.....	Secure.....	Flight.....	Do.
11.35 a. m. to 12.10 p. m.-----	do.....	Radio.....	do.....	do.....
1.30 to 3.30 p. m.-----	Recreation.....	Recreation.....	Recreation.....	Recreation.
3.30 to 5.30 p. m.-----	do.....	do.....	do.....	Do.

*Summer schedule, 1929, for midshipmen of the second class—Continued*DEPARTMENTS OF SEAMANSHIP AND FLIGHT TACTICS, NAVIGATION, AND
ELECTRICAL ENGINEERING AND PHYSICS—Continued

Date	Platoon 1		Platoon 2	Platoon 3
	Squad A	Squad B		
COMPANY No. 1				
Monday, July 8:				
7.50 to 8.30 a. m.-----	Flight-----	Radio-----	Radio-----	Radio.
8.35 to 10.05 a. m.-----	do-----	Boat shed-----	E. E. and P.-----	Navigation.
10.10 to 11.30 a. m.-----	Secure-----	Flight-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	do-----	do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation-----	Recreation.
Tuesday, July 9:				
7.50 to 8.30 a. m.-----	Flight-----	Radio-----	Radio-----	Radio.
8.35 to 10.05 a. m.-----	do-----	Boat shed-----	E. E. and P.-----	Navigation.
10.10 to 11.30 a. m.-----	Secure-----	Flight-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	do-----	do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation-----	Recreation.
Wednesday, July 10:				
7.50 to 8.30 a. m.-----	Flight-----	Radio-----	Radio-----	Radio.
8.35 to 10.05 a. m.-----	do-----	Boat shed-----	E. E. and P.-----	Navigation.
10.10 to 11.30 a. m.-----	Secure-----	Flight-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	do-----	do.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	do-----	Do.

Date	Platoon 1	Platoon 2	Platoon 3	
			Squad A	Squad B
COMPANY NO. 1—Continued				
Thursday, July 11:				
7.50 to 8.30 a. m. -----	Radio -----	Radio -----	Flight -----	Radio.
8.35 to 10.05 a. m. -----	Navigation -----	E. E. and P -----	do -----	Boat shed.
10.10 to 11.30 a. m. -----	do -----	do -----	Secure -----	Flight.
11.35 a. m. to 12.10 p. m. -----	-----	-----	Radio -----	Do.
1.30 to 3.30 p. m. -----	C. F. A -----	C. F. A -----	C. F. A -----	C. F. A.
3.30 to 5.30 p. m. -----	Recreation -----	Recreation -----	Recreation -----	Recreation.
Friday, July 12:				
7.50 to 8.30 a. m. -----	Radio -----	Radio -----	Flight -----	Radio.
8.35 to 10.05 a. m. -----	Navigation -----	E. E. and P -----	do -----	Boat shed.
10.10 to 11.30 a. m. -----	do -----	do -----	Secure -----	Flight.
11.35 a. m. to 12.10 p. m. -----	-----	-----	Radio -----	Do.
1.30 to 3.30 p. m. -----	C. F. A -----	C. F. A -----	C. F. A -----	C. F. A.
3.30 to 5.30 p. m. -----	Recreation -----	Recreation -----	Recreation -----	Recreation.
Saturday, July 13:				
7.50 to 8.30 a. m. -----	Radio -----	Radio -----	Flight -----	Radio.
8.35 to 10.05 a. m. -----	Navigation -----	E. E. and P -----	do -----	Boat shed.
10.10 to 11.30 a. m. -----	do -----	do -----	Secure -----	Flight.
11.35 a. m. to 12.10 p. m. -----	-----	-----	Radio -----	Do.
1.30 to 3.30 p. m. -----	Recreation -----	Recreation -----	Recreation -----	Recreation.
3.30 to 5.30 p. m. -----	do -----	do -----	do -----	Do.

*Summer schedule, 1929, for midshipmen of the second class—Continued*DEPARTMENT OF SEAMANSHIP AND FLIGHT TACTICS, NAVIGATION, AND
ELECTRICAL ENGINEERING AND PHYSICS—Continued

Date	Platoon 1		Platoon 2	Platoon 3
	Squad A	Squad B		
COMPANY No. 2				
Monday, July 15:				
7.50 to 8.30 a. m. -----	Flight-----	Radio-----	Radio-----	Radio-----
8.35 to 10.05 a. m. -----	do-----	Boat shed-----	E. E. and P-----	Navigation-----
10.10 to 11.30 a. m. -----	Secure-----	Flight-----	do-----	Do-----
11.35 a. m. to 12.10 p. m. -----	Radio-----	do-----	-----	-----
1.30 to 3.30 p. m. -----	C. F. A-----	C. F. A-----	C. F. A-----	C. F. A-----
3.30 to 5.30 p. m. -----	Recreation-----	Recreation-----	Recreation-----	Recreation-----
Tuesday, July 16:				
7.50 to 8.30 a. m. -----	Flight-----	Radio-----	Radio-----	Radio-----
8.35 to 10.05 a. m. -----	do-----	Boat shed-----	E. E. and P-----	Navigation-----
10.10 to 11.30 a. m. -----	Secure-----	Flight-----	do-----	Do-----
11.35 a. m. to 12.10 p. m. -----	Radio-----	do-----	-----	-----
1.30 to 3.30 p. m. -----	C. F. A-----	C. F. A-----	C. F. A-----	C. F. A-----
3.30 to 5.30 p. m. -----	Recreation-----	Recreation-----	Recreation-----	Recreation-----
Wednesday, July 17:				
7.50 to 8.30 a. m. -----	Flight-----	Radio-----	Radio-----	Radio-----
8.35 to 10.05 a. m. -----	do-----	Boat shed-----	E. E. and P-----	Navigation-----
10.10 to 11.30 a. m. -----	Secure-----	Flight-----	do-----	Do-----
11.35 a. m. to 12.10 p. m. -----	Radio-----	do-----	-----	-----
1.30 to 3.30 p. m. -----	Recreation-----	Recreation-----	Recreation-----	Recreation-----
3.30 to 5.30 p. m. -----	do-----	do-----	do-----	Do-----

Date	Platoon 1	Platoon 2	Platoon 3	
			Squad A	Squad B
COMPANY No. 2—Continued				
Thursday, July 18:				
7.50 to 8.30 a. m. -----	Radio-----	Radio-----	Flight-----	Radio-----
8.35 to 10.05 a. m. -----	Navigation-----	E. E. and P-----	do-----	Boat shed-----
10.10 to 11.30 a. m. -----	do-----	do-----	Secure-----	Flight-----
11.35 a. m. to 12.10 p. m. -----	do-----	do-----	Radio-----	Do-----
1.30 to 3.30 p. m. -----	C. F. A-----	C. F. A-----	C. F. A-----	C. F. A-----
3.30 to 5.30 p. m. -----	Recreation-----	Recreation-----	Recreation-----	Recreation-----
Friday, July 19:				
7.50 to 8.30 a. m. -----	Radio-----	Radio-----	Flight-----	Radio-----
8.35 to 10.05 a. m. -----	Navigation-----	E. E. and P-----	do-----	Boat shed-----
10.10 to 11.30 a. m. -----	do-----	do-----	Secure-----	Flight-----
11.35 a. m. to 12.10 p. m. -----	do-----	do-----	Radio-----	Do-----
1.30 to 3.30 p. m. -----	C. F. A-----	C. F. A-----	C. F. A-----	C. F. A-----
3.30 to 5.30 p. m. -----	Recreation-----	Recreation-----	Recreation-----	Recreation-----
Saturday, July 20:				
7.50 to 8.30 a. m. -----	Radio-----	Radio-----	Flight-----	Radio-----
8.35 to 10.05 a. m. -----	Navigation-----	E. E. and P-----	do-----	Boat shed-----
10.10 to 11.30 a. m. -----	do-----	do-----	Secure-----	Flight-----
11.35 a. m. to 12.10 p. m. -----	do-----	do-----	Radio-----	Do-----
1.30 to 3.30 p. m. -----	Recreation-----	Recreation-----	Recreation-----	Recreation-----
3.30 to 5.30 p. m. -----	do-----	do-----	do-----	Do-----

*Summer schedule, 1929, for midshipmen of the second class—Continued*DEPARTMENTS OF SEAMANSHIP AND FLIGHT TACTICS, NAVIGATION, AND
ELECTRICAL ENGINEERING AND PHYSICS—Continued

Date	Platoon 1		Platoon 2	Platoon 3
	Squad A	Squad B		
COMPANY NO. 3				
Monday, July 22:				
7.50 to 8.30 a. m.	Flight.....	Radio.....	Radio.....	Radio.....
8.35 to 10.05 a. m.	do.....	Boat shed.....	E. E. and P.....	Navigation.....
10.10 to 11.30 a. m.	Secure.....	Flight.....	do.....	Do.....
11.35 a. m. to 12.10 p. m.	Radio.....	do.....		
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.....	C. F. A.....
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.....	Recreation.....
Tuesday, July 23:				
7.50 to 8.30 a. m.	Flight.....	Radio.....	Radio.....	Radio.....
8.35 to 10.05 a. m.	do.....	Boat shed.....	E. E. and P.....	Navigation.....
10.10 to 11.30 a. m.	Secure.....	Flight.....	do.....	Do.....
11.35 a. m. to 12.10 p. m.	Radio.....	do.....		
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.....	C. F. A.....
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.....	Recreation.....
Wednesday, July 24:				
7.50 to 8.30 a. m.	Flight.....	Radio.....	Radio.....	Radio.....
8.35 to 10.05 a. m.	do.....	Boat shed.....	E. E. and P.....	Navigation.....
10.10 to 11.30 a. m.	Secure.....	Flight.....	do.....	Do.....
11.30 a. m. to 12.10 p. m.	Radio.....	do.....		
1.30 to 3.30 p. m.	Recreation.....	Recreation.....	Recreation.....	Recreation.....
3.30 to 5.30 p. m.	do.....	do.....	do.....	Do.....
Date	Platoon 1	Platoon 2	Platoon 3	
			Squad A	Squad B
COMPANY NO. 3—Continued				
Thursday, July 25:				
7.50 to 8.30 a. m.	Radio.....	Radio.....	Flight.....	Radio.....
8.35 to 10.05 a. m.	Navigation.....	E. E. and P.....	do.....	Boat shed.....
10.10 to 11.30 a. m.	do.....	do.....	Secure.....	Flight.....
11.35 a. m. to 12.10 p. m.			Radio.....	Do.....
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.....	C. F. A.....
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.....	Recreation.....
Friday, July 26:				
7.50 to 8.30 a. m.	Radio.....	Radio.....	Flight.....	Radio.....
8.35 to 10.05 a. m.	Navigation.....	E. E. and P.....	do.....	Boat shed.....
10.10 to 11.30 a. m.	do.....	do.....	Secure.....	Flight.....
11.35 a. m. to 12.10 p. m.			Radio.....	Do.....
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.....	C. F. A.....
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.....	Recreation.....
Saturday, July 27:				
7.50 to 8.30 a. m.	Radio.....	Radio.....	Flight.....	Radio.....
8.35 to 10.05 a. m.	Navigation.....	E. E. and P.....	do.....	Boat shed.....
10.10 to 11.30 a. m.	do.....	do.....	Secure.....	Flight.....
11.30 a. m. to 12.10 p. m.			Radio.....	Do.....
1.30 to 3.30 p. m.	Recreation.....	Recreation.....	Recreation.....	Recreation.....
3.30 to 5.30 p. m.	do.....	do.....	do.....	Do.....

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENTS OF SEAMANSHIP AND FLIGHT TACTICS, NAVIGATION, AND
ELECTRICAL ENGINEERING AND PHYSICS—Continued

Date	Platoon 1		Platoon 2	Platoon 3
	Squad A	Squad B		
COMPANY No. 4				
Monday, July 29:				
7.50 to 8.30 a. m.	Flight.....	Radio.....	Radio.....	Radio.
8.35 to 10.05 a. m.	do.....	Boat shed.....	E. E. and P.....	Navigation.
10.10 to 11.30 a. m.	Secure.....	Flight.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	do.....	do.....	Do.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.....	Recreation.
Tuesday, July 30:				
7.50 to 8.30 a. m.	Flight.....	Radio.....	Radio.....	Radio.
8.35 to 10.05 a. m.	do.....	Boat shed.....	E. E. and P.....	Navigation.
10.10 to 11.30 a. m.	Secure.....	Flight.....	do.....	Do.
11.30 a. m. to 12.10 p. m.	Radio.....	do.....	do.....	Do.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.....	Recreation.
Wednesday, July 31:				
7.50 to 8.30 a. m.	Flight.....	Radio.....	Radio.....	Radio.
8.35 to 10.05 a. m.	do.....	Boat shed.....	E. E. and P.....	Navigation.
10.10 to 11.30 a. m.	Secure.....	Flight.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	do.....	do.....	Do.
1.30 to 3.30 p. m.	Recreation.....	Recreation.....	Recreation.....	Recreation.
3.30 to 5.30 p. m.	do.....	do.....	do.....	Do.
Date	Platoon 1	Platoon 2	Platoon 3	
			Squad A	Squad B
COMPANY No. 4—Continued				
Thursday, Aug. 1:				
7.50 to 8.30 a. m.	Radio.....	Radio.....	Flight.....	Radio.
8.35 to 10.05 a. m.	Navigation.....	E. E. and P.....	do.....	Boat shed.
10.10 to 11.30 a. m.	do.....	do.....	Secure.....	Flight.
11.35 a. m. to 12.10 p. m.	do.....	do.....	Radio.....	Do.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.....	Recreation.
Friday, Aug. 2:				
7.50 to 8.30 a. m.	Radio.....	Radio.....	Flight.....	Radio.
8.35 to 10.05 a. m.	Navigation.....	E. E. and P.....	do.....	Boat shed.
10.10 to 11.30 a. m.	do.....	do.....	Secure.....	Flight.
11.35 a. m. to 12.10 p. m.	do.....	do.....	Radio.....	Do.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.....	Recreation.
Saturday, Aug. 3:				
7.50 to 8.30 a. m.	Radio.....	Radio.....	Flight.....	Radio.
8.35 to 10.05 a. m.	Navigation.....	E. E. and P.....	do.....	Boat shed.
10.10 to 11.30 a. m.	do.....	do.....	Secure.....	Flight.
11.35 a. m. to 12.10 p. m.	do.....	do.....	Radio.....	Do.
1.30 to 3.30 p. m.	Recreation.....	Recreation.....	Recreation.....	Recreation.
3.30 to 5.30 p. m.	do.....	do.....	do.....	Do.

*Summer schedule, 1929, for midshipmen of the second class—Continued*DEPARTMENTS OF SEAMANSHIP AND FLIGHT TACTICS, NAVIGATION AND
ELECTRICAL ENGINEERING AND PHYSICS—Continued

Date	Platoon 1	Platoon 2		Platoon 3
		Squad A	Squad B	
COMPANY NO. 1				
Monday, Aug. 5:				
7.50 to 8.30 a. m.	Radio	Flight	Radio	Radio.
8.35 to 10.05 a. m.	E. E. and P.	do	Boat shed	Navigation.
10.10 to 11.30 a. m.	do	Secure	Flight	Do.
11.35 a. m. to 12.10 p. m.	do	Radio	do	do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation	Recreation.
Tuesday, Aug. 6:				
7.50 to 8.30 a. m.	Radio	Flight	Radio	Radio.
8.35 to 10.05 a. m.	E. E. and P.	do	Boat shed	Navigation.
10.10 to 11.30 a. m.	do	Secure	Flight	Do.
11.35 a. m. to 12.10 p. m.	do	Radio	do	do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation	Recreation.
Wednesday, Aug. 7:				
7.50 to 8.30 a. m.	Radio	Flight	Radio	Radio.
8.35 to 10.05 a. m.	E. E. and P.	do	Boat shed	Navigation.
10.10 to 11.30 a. m.	do	Secure	Flight	Do.
11.35 a. m. to 12.10 p. m.	do	Radio	do	do.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	do	Do.
Date	Platoon 1	Platoon 2	Platoon 3	
			Squad A	Squad B
COMPANY NO. 1—Continued				
Thursday, Aug. 8:				
7.50 to 8.30 a. m.	Radio	Radio	Flight	Radio.
8.35 to 10.05 a. m.	E. E. and P.	Navigation	do	Boat shed.
10.10 to 11.30 a. m.	do	do	Secure	Flight.
11.35 a. m. to 12.10 p. m.	do	do	Radio	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation	Recreation.
Friday, Aug. 9:				
7.50 to 8.30 a. m.	Radio	Radio	Flight	Radio.
8.35 to 10.05 a. m.	E. E. and P.	Navigation	do	Boat shed.
10.10 to 11.30 a. m.	do	do	Secure	Flight.
11.35 a. m. to 12.10 p. m.	do	do	Radio	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation	Recreation.
Saturday, Aug. 10:				
7.50 to 8.30 a. m.	Radio	Radio	Flight	Radio.
8.35 to 10.05 a. m.	E. E. and P.	Navigation	do	Boat shed.
10.10 to 11.30 a. m.	do	do	Secure	Flight.
11.35 a. m. to 12.10 p. m.	do	do	Radio	Do.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	do	Do.

*Summer schedule, 1929, for midshipmen of the second class—Continued*DEPARTMENTS OF SEAMANSHIP AND FLIGHT TACTICS, NAVIGATION AND
ELECTRICAL ENGINEERING AND PHYSICS—Continued

Date	Platoon 1	Platoon 2		Platoon 3
		Squad A	Squad B	
COMPANY No. 2				
Monday, Aug. 12:				
7.50 to 8.30 a. m.	Radio	Flight	Radio	Radio.
8.35 to 10.05 a. m.	E. E. and P.	do	Boat shed	Navigation.
10.10 to 11.30 a. m.	do	Secure	Flight	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	do	
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation	Recreation.
Tuesday, Aug. 13:				
7.50 to 8.30 a. m.	Radio	Flight	Radio	Radio.
8.35 to 10.05 a. m.	E. E. and P.	do	Boat shed	Navigation.
10.10 to 11.30 a. m.	do	Secure	Flight	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	do	
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation	Recreation.
Wednesday, Aug. 14:				
7.50 to 8.30 a. m.	Radio	Flight	Radio	Radio.
8.35 to 10.05 a. m.	E. E. and P.	do	Boat shed	Navigation.
10.10 to 11.30 a. m.	do	Secure	Flight	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	do	
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	do	Do.
Date	Platoon 1	Platoon 2	Platoon 3	
			Squad A	Squad B
COMPANY No. 2—Continued				
Thursday, Aug. 15:				
7.50 to 8.30 a. m.	Radio	Radio	Flight	Radio.
8.35 to 10.05 a. m.	E. E. and P.	Navigation	do	Boat shed.
10.10 to 11.30 a. m.	do	do	Secure	Flight.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation	Recreation.
Friday, Aug. 16:				
7.50 to 8.30 a. m.	Radio	Radio	Flight	Radio.
8.35 to 10.05 a. m.	E. E. and P.	Navigation	do	Boat shed.
10.10 to 11.30 a. m.	do	do	Secure	Flight.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation	Recreation.
Saturday, Aug. 17:				
7.50 to 8.30 a. m.	Radio	Radio	Flight	Radio.
8.35 to 10.05 a. m.	E. E. and P.	Navigation	do	Boat shed.
10.10 to 11.30 a. m.	do	do	Secure	Flight.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio	Do.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	do	Do.

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENTS OF SEAMANSHIP AND FLIGHT TACTICS, NAVIGATION, AND
ELECTRICAL ENGINEERING AND PHYSICS—Continued

Date	Platoon 1	Platoon 2		Platoon 3
		Squad A	Squad B	
COMPANY No. 3				
Monday, Aug. 19:				
7.50 to 8.30 a. m. -----	Radio -----	Flight -----	Radio -----	Radio.
8.35 to 10.05 a. m. -----	E. E. and P. -----	do -----	Boat shed -----	Navigation.
10.10 to 11.30 a. m. -----	do -----	Secure -----	Flight -----	Do.
11.35 a. m. to 12.10 p. m. -----	-----	Radio -----	do -----	-----
1.30 to 3.30 p. m. -----	C. F. A. -----	C. F. A. -----	C. F. A. -----	C. F. A.
3.30 to 5.30 p. m. -----	Recreation -----	Recreation -----	Recreation -----	Recreation.
Tuesday, Aug. 20:				
7.50 to 8.30 a. m. -----	Radio -----	Flight -----	Radio -----	Radio.
8.35 to 10.05 a. m. -----	E. E. and P. -----	do -----	Boat shed -----	Navigation.
10.10 to 11.30 a. m. -----	do -----	Secure -----	Flight -----	Do.
11.35 a. m. to 12.10 p. m. -----	-----	Radio -----	do -----	-----
1.30 to 3.30 p. m. -----	C. F. A. -----	C. F. A. -----	C. F. A. -----	C. F. A.
3.30 to 5.30 p. m. -----	Recreation -----	Recreation -----	Recreation -----	Recreation.
Wednesday, Aug. 21:				
7.50 to 8.30 a. m. -----	Radio -----	Flight -----	Radio -----	Radio.
8.35 to 10.05 a. m. -----	E. E. and P. -----	do -----	Boat shed -----	Navigation.
10.10 to 11.30 a. m. -----	do -----	Secure -----	Flight -----	Do.
11.35 a. m. to 12.10 p. m. -----	-----	Radio -----	do -----	-----
1.30 to 3.30 p. m. -----	Recreation -----	Recreation -----	Recreation -----	Recreation.
3.30 to 5.30 p. m. -----	do -----	do -----	do -----	Do.

Date	Platoon 1	Platoon 2	Platoon 3	
			Squad A	Squad B
COMPANY NO. 3—Continued				
Thursday, Aug. 22:				
7.50 to 8.30 a. m. -----	Radio-----	Radio-----	Flight-----	Radio.
8.35 to 10.05 a. m. -----	E. E. and P.-----	Navigation-----	do-----	Boat shed.
10.10 to 11.30 a. m. -----	do-----	do-----	Secure-----	Flight.
11.35 a. m. to 12.10 p. m. -----			Radio-----	Do.
1.30 to 3.30 p. m. -----	C. F. A-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m. -----	Recreation-----	Recreation-----	Recreation-----	Recreation.
Friday, Aug. 23:				
7.50 to 8.30 a. m. -----	Radio-----	Radio-----	Flight-----	Radio.
8.35 to 10.05 a. m. -----	E. E. and P.-----	Navigation-----	do-----	Boat shed.
10.10 to 11.30 a. m. -----	do-----	do-----	Secure-----	Flight.
11.35 a. m. to 12.10 p. m. -----			Radio-----	Do.
1.30 to 3.30 p. m. -----	C. F. A-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m. -----	Recreation-----	Recreation-----	Recreation-----	Recreation.
Saturday, Aug. 24:				
7.50 to 8.30 a. m. -----	Radio-----	Radio-----	Flight-----	Radio.
8.35 to 10.05 a. m. -----	E. E. and P.-----	Navigation-----	do-----	Boat shed.
10.10 to 11.30 a. m. -----	do-----	do-----	Secure-----	Flight.
11.35 a. m. to 12.10 p. m. -----			Radio-----	Do.
1.30 to 3.30 p. m. -----	Recreation-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m. -----	do-----	do-----	do-----	Do.

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENTS OF SEAMANSHIP AND FLIGHT TACTICS, NAVIGATION, AND
ELECTRICAL ENGINEERING AND PHYSICS—Continued

Date	Platoon 1	Platoon 2		Platoon 3
		Squad A	Squad B	
COMPANY No. 4				
Monday, Aug. 26:				
7.50 to 8.30 a. m.	Radio	Flight	Radio	Radio.
8.35 to 10.05 a. m.	E. E. and P.	do	Boat shed	Navigation.
10.10 to 11.30 a. m.	do	Secure	Flight	Do.
11.35 a. m. to 12.10 p. m.	do	Radio	do	do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation	Recreation.
Tuesday, Aug. 27:				
7.50 to 8.30 a. m.	Radio	Flight	Radio	Radio.
8.35 to 10.05 a. m.	E. E. and P.	do	Boat shed	Navigation.
10.10 to 11.30 a. m.	do	Secure	Flight	Do.
11.35 a. m. to 12.10 p. m.	do	Radio	do	do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation	Recreation.
Wednesday, Aug. 28:				
7.50 to 8.30 a. m.	Radio	Flight	Radio	Radio.
8.35 to 10.05 a. m.	E. E. and P.	do	Boat shed	Navigation.
10.10 to 11.30 a. m.	do	Secure	Flight	Do.
11.35 a. m. to 12.10 p. m.	do	Radio	do	do.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	do	Do.
Date	Platoon 1	Platoon 2	Platoon 3	
			Squad A	Squad B
COMPANY No. 4—Continued				
Thursday, Aug. 29:				
7.50 to 8.30 a. m.	Radio	Radio	Flight	Radio.
8.35 to 10.05 a. m.	E. E. and P.	Navigation	do	Boat shed.
10.10 to 11.30 a. m.	do	do	Secure	Flight.
11.35 a. m. to 12.10 p. m.	do	do	Radio	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation	Recreation.
Friday, Aug. 30:				
7.50 to 8.30 a. m.	Radio	Radio	Flight	Radio.
8.35 to 10.05 a. m.	E. E. and P.	Navigation	do	Boat shed.
10.10 to 11.30 a. m.	do	do	Secure	Flight.
11.35 a. m. to 12.10 p. m.	do	do	Radio	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation	Recreation.
Saturday, Aug. 31:				
7.50 to 8.30 a. m.	Radio	Radio	Flight	Radio.
8.35 to 10.05 a. m.	E. E. and P.	Navigation	do	Boat shed.
10.10 to 11.30 a. m.	do	do	Secure	Flight.
11.35 a. m. to 12.10 p. m.	do	do	Radio	Do.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	do	Do.

*Summer schedule, 1929, for midshipmen of the second class—Continued*DEPARTMENTS OF EXECUTIVE, ORDNANCE AND GUNNERY, AND ELECTRICAL
ENGINEERING AND PHYSICS

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY No. 2			
Monday, June 10:			
7.50 to 8.30 a. m.	Range gunnery.....	Duty.....	E. E. and P. Do. Radio. C. F. A. Recreation.
8.35 to 10.05 a. m.	do.....	do.....	
10.10 to 11.30 a. m.	do.....	do.....	
11.35 a. m. to 12.10 p. m.	do.....	do.....	
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	
Tuesday, June 11:			
7.50 to 8.30 a. m.	Range gunnery.....	Duty.....	E. E. and P. Do. Radio. C. F. A. Recreation.
8.35 to 10.05 a. m.	do.....	do.....	
10.10 to 11.30 a. m.	do.....	do.....	
11.35 a. m. to 12.10 p. m.	do.....	do.....	
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	
Wednesday, June 12:			
7.50 to 8.30 a. m.	Range gunnery.....	Duty.....	E. E. and P. Do. Radio. Recreation. Do.
8.35 to 10.05 a. m.	do.....	do.....	
10.10 to 11.30 a. m.	do.....	do.....	
11.35 a. m. to 12.10 p. m.	do.....	do.....	
1.30 to 3.30 p. m.	Recreation.....	Recreation.....	
3.30 to 5.30 p. m.	do.....	do.....	
Thursday, June 13:			
7.50 to 8.30 a. m.	Range gunnery.....	Duty.....	E. E. and P. Do. Radio. C. F. A. Recreation.
8.35 to 10.05 a. m.	do.....	do.....	
10.10 to 11.30 a. m.	do.....	do.....	
11.35 a. m. to 12.10 p. m.	do.....	do.....	
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	
Friday, June 14:			
7.50 to 8.30 a. m.	Range gunnery.....	Duty.....	E. E. and P. Do. Radio. C. F. A. Recreation.
8.35 to 10.05 a. m.	do.....	do.....	
10.10 to 11.30 a. m.	do.....	do.....	
11.35 a. m. to 12.10 p. m.	do.....	do.....	
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	
Saturday, June 15:			
7.50 to 8.30 a. m.	Range gunnery.....	Duty.....	E. E. and P. Do. Radio. Recreation. Do.
8.35 to 10.05 a. m.	do.....	do.....	
10.10 to 11.30 a. m.	do.....	do.....	
11.35 a. m. to 12.10 p. m.	do.....	do.....	
1.30 to 3.30 p. m.	Recreation.....	Recreation.....	
3.30 to 5.30 p. m.	do.....	do.....	
COMPANY No. 3			
Monday, June 17:			
7.50 to 8.30 a. m.	Range gunnery.....	Duty.....	E. E. and P. Do. Radio. C. F. A. Recreation.
8.35 to 10.05 a. m.	do.....	do.....	
10.10 to 11.30 a. m.	do.....	do.....	
11.35 a. m. to 12.10 p. m.	do.....	do.....	
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	
Tuesday, June 18:			
7.50 to 8.30 a. m.	Range gunnery.....	Duty.....	E. E. and P. Do. Radio. C. F. A. Recreation.
8.35 to 10.05 a. m.	do.....	do.....	
10.10 to 11.30 a. m.	do.....	do.....	
11.35 a. m. to 12.10 p. m.	do.....	do.....	
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENTS OF EXECUTIVE, ORDNANCE AND GUNNERY, AND ELECTRICAL
ENGINEERING AND PHYSICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY No. 3—Continued			
Wednesday, June 19:			
7.50 to 8.30 a. m.	Range gunnery	Duty	
8.35 to 10.05 a. m.	do.	do.	E. E. and P.
10.10 to 11.30 a. m.	do.	do.	Do.
11.35 a. m. to 12.10 p. m.	do.	do.	Radio.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do.	do.	Do.
Thursday, June 20:			
7.50 to 8.30 a. m.	Range gunnery	Duty	
8.35 to 10.05 a. m.	do.	do.	E. E. and P.
10.10 to 11.30 a. m.	do.	do.	Do.
11.35 a. m. to 12.10 p. m.	do.	do.	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Friday, June 21:			
7.50 to 8.30 a. m.	Range gunnery	Duty	
8.35 to 10.05 a. m.	do.	do.	E. E. and P.
10.10 to 11.30 a. m.	do.	do.	Do.
11.35 a. m. to 12.10 p. m.	do.	do.	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Saturday, June 22:			
7.50 to 8.30 a. m.	Range gunnery	Duty	
8.35 to 10.05 a. m.	do.	do.	E. E. and P.
10.10 to 11.30 a. m.	do.	do.	Do.
11.35 a. m. to 12.10 p. m.	do.	do.	Radio.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do.	do.	Do.
COMPANY No. 4			
Monday, June 24:			
7.50 to 8.30 a. m.	Range gunnery	Duty	
8.35 to 10.05 a. m.	do.	do.	E. E. and P.
10.10 to 11.30 a. m.	do.	do.	Do.
11.35 a. m. to 12.10 p. m.	do.	do.	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Tuesday, June 25:			
7.50 to 8.30 a. m.	Range gunnery	Duty	
8.35 to 10.05 a. m.	do.	do.	E. E. and P.
10.10 to 11.30 a. m.	do.	do.	Do.
11.35 a. m. to 12.10 p. m.	do.	do.	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Wednesday, June 26:			
7.50 to 8.30 a. m.	Range gunnery	Duty	
8.35 to 10.05 a. m.	do.	do.	E. E. and P.
10.10 to 11.30 a. m.	do.	do.	Do.
11.35 a. m. to 12.10 p. m.	do.	do.	Radio.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do.	do.	Do.
Thursday, June 27:			
7.50 to 8.30 a. m.	Range gunnery	Duty	
8.35 to 10.05 a. m.	do.	do.	E. E. and P.
10.10 to 11.30 a. m.	do.	do.	Do.
11.35 a. m. to 12.10 p. m.	do.	do.	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.

*Summer schedule, 1929, for midshipmen of the second class—Continued*DEPARTMENTS OF EXECUTIVE, ORDNANCE AND GUNNERY, AND ELECTRICAL
ENGINEERING AND PHYSICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY NO. 4—Continued			
Friday, June 28:			
7.50 to 8.30 a. m.-----	Range gunnery-----	Duty-----	
8.35 to 10.05 a. m.-----	do-----	do-----	E. E. and P.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	do-----	Radio.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Saturday, June 29:			
7.50 to 8.30 a. m.-----	Range gunnery-----	Duty-----	
8.35 to 10.05 a. m.-----	do-----	do-----	E. E. and P.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	do-----	Radio.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	Do.
COMPANY NO. 1			
Monday, July 1:			
7.50 to 8.30 a. m.-----	Range gunnery-----	Duty-----	
8.35 to 10.05 a. m.-----	do-----	do-----	E. E. and P.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	do-----	Radio.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Tuesday, July 2:			
7.50 to 8.30 a. m.-----	Range gunnery-----	Duty-----	
8.35 to 10.05 a. m.-----	do-----	do-----	E. E. and P.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	do-----	Radio.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Wednesday, July 3:			
7.50 to 8.30 a. m.-----	Range gunnery-----	Duty-----	
8.35 to 10.05 a. m.-----	do-----	do-----	E. E. and P.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	do-----	Radio.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	Do.
Thursday, July 4-----			
Holiday			
Friday, July 5:			
7.50 to 8.30 a. m.-----	Range gunnery-----	Duty-----	
8.35 to 10.05 a. m.-----	do-----	do-----	E. E. and P.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	do-----	Radio.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Saturday, July 6:			
7.50 to 8.30 a. m.-----	Range gunnery-----	Duty-----	
8.35 to 10.05 a. m.-----	do-----	do-----	E. E. and P.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	do-----	Radio.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation
3.30 to 5.30 p. m.-----	do-----	do-----	Do

*Summer schedule, 1929, for midshipmen of the second class—Continued*DEPARTMENTS OF EXECUTIVE, ORDNANCE AND GUNNERY, AND ELECTRICAL
ENGINEERING AND PHYSICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY No. 2			
Monday, July 8:			
7.50 to 8.30 a. m.-----	Duty-----		Range gunnery.
8.35 to 10.05 a. m.-----	do-----	E. E. and P-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	Radio-----	Do.
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Tuesday, July 9:			
7.50 to 8.30 a. m.-----	Duty-----		Range gunnery.
8.35 to 10.05 a. m.-----	do-----	E. E. and P-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	Radio-----	Do.
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Wednesday, July 10:			
7.50 to 8.30 a. m.-----	Duty-----		Range gunnery.
8.35 to 10.05 a. m.-----	do-----	E. E. and P-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.30 a. m. to 12.10 p. m.-----	do-----	Radio-----	Do.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	Do.
Thursday, July 11:			
7.50 to 8.30 a. m.-----	Duty-----		Range gunnery.
8.35 to 10.05 a. m.-----	do-----	E. E. and P-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	Radio-----	Do.
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Friday, July 12:			
7.50 to 8.30 a. m.-----	Duty-----		Range gunnery.
8.35 to 10.05 a. m.-----	do-----	E. E. and P-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	Radio-----	Do.
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Saturday, July 13:			
7.50 to 8.30 a. m.-----	Duty-----		Range gunnery.
8.35 to 10.05 a. m.-----	do-----	E. E. and P-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	Radio-----	Do.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	Do.
COMPANY No. 3			
Monday, July 15:			
7.50 to 8.30 a. m.-----	Duty-----		Range gunnery.
8.35 to 10.05 a. m.-----	do-----	E. E. and P-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	Radio-----	Do.
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Tuesday, July 16:			
7.50 to 8.30 a. m.-----	Duty-----		Range gunnery.
8.35 to 10.05 a. m.-----	do-----	E. E. and P-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	Radio-----	Do.
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.

*Summer schedule, 1929, for midshipmen of the second class—Continued*DEPARTMENTS OF EXECUTIVE, ORDNANCE AND GUNNERY, AND ELECTRICAL
ENGINEERING AND PHYSICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY NO. 3—Continued			
Wednesday, July 17:			
7.50 to 8.30 a. m.-----	Duty-----		Range gunnery.
8.35 to 10.05 a. m.-----	do-----	E. E. and P.-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	Radio-----	Do.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	Do.
Thursday, July 18:			
7.50 to 8.30 a. m.-----	Duty-----		Range gunnery.
8.35 to 10.05 a. m.-----	do-----	E. E. and P.-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	Radio-----	Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Friday, July 19:			
7.50 to 8.30 a. m.-----	Duty-----		Range gunnery.
8.35 to 10.05 a. m.-----	do-----	E. E. and P.-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	Radio-----	Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Saturday, July 20:			
7.50 to 8.30 a. m.-----	Duty-----		Range gunnery.
8.35 to 10.05 a. m.-----	do-----	E. E. and P.-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	Radio-----	Do.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	Do.
COMPANY NO. 4			
Monday, July 22:			
7.50 to 8.30 a. m.-----	Duty-----		Range gunnery.
8.35 to 10.05 a. m.-----	do-----	E. E. and P.-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	Radio-----	Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Tuesday, July 23:			
7.50 to 8.30 a. m.-----	Duty-----		Range gunnery.
8.35 to 10.05 a. m.-----	do-----	E. E. and P.-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	Radio-----	Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Wednesday, July 24:			
7.50 to 8.30 a. m.-----	Duty-----		Range gunnery.
8.35 to 10.05 a. m.-----	do-----	E. E. and P.-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	Radio-----	Do.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	Do.
Thursday, July 25:			
7.50 to 8.30 a. m.-----	Duty-----		Range gunnery.
8.35 to 10.05 a. m.-----	do-----	E. E. and P.-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	do-----	Radio-----	Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.

*Summer schedule, 1929, for midshipmen of the second class—Continued*DEPARTMENTS OF EXECUTIVE, ORDNANCE AND GUNNERY, AND ELECTRICAL
ENGINEERING AND PHYSICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY NO. 4—Continued			
Friday, July 26:			
7.50 to 8.30 a. m.	Duty		Range gunnery
8.35 to 10.05 a. m.	do	E. E. and P.	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	Radio	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Saturday, July 27:			
7.50 to 8.30 a. m.	Duty		Range gunnery.
8.35 to 10.05 a. m.	do	E. E. and P.	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	Radio	Do.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do
COMPANY NO. 1			
Monday, July 29:			
7.50 to 8.30 a. m.	Duty		Range gunnery.
8.35 to 10.05 a. m.	do	E. E. and P.	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	Radio	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Tuesday, July 30:			
7.50 to 8.30 a. m.	Duty		Range gunnery
8.35 to 10.05 a. m.	do	E. E. and P.	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	Radio	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Wednesday, July 31:			
7.50 to 8.30 a. m.	Duty		Range gunnery.
8.35 to 10.05 a. m.	do	E. E. and P.	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	Radio	Do.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.
Thursday, Aug. 1:			
7.50 to 8.30 a. m.	Duty		Range gunnery.
8.35 to 10.05 a. m.	do	E. E. and P.	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	Radio	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Friday, Aug. 2:			
7.50 to 8.30 a. m.	Duty		Range gunnery.
8.35 to 10.05 a. m.	do	E. E. and P.	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	Radio	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Saturday, Aug. 3:			
7.50 to 8.30 a. m.	Duty		Range gunnery.
8.35 to 10.05 a. m.	do	E. E. and P.	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	Radio	Do.
1.30 p. m. to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.

*Summer schedule, 1929, for midshipmen of the second class—Continued*DEPARTMENTS OF EXECUTIVE, ORDNANCE AND GUNNERY, AND ELECTRICAL
ENGINEERING AND PHYSICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY No. 2			
Monday, Aug. 5:			
7.50 to 8.30 a. m.		Range gunnery	Duty.
8.35 to 10.05 a. m.	E. E. and P.	do	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	do	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Tuesday, Aug. 6:			
7.50 to 8.30 a. m.		Range gunnery	Duty.
8.35 to 10.05 a. m.	E. E. and P.	do	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	do	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Wednesday, Aug. 7:			
7.50 to 8.30 a. m.		Range gunnery	Duty.
8.35 to 10.05 a. m.	E. E. and P.	do	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	do	Do.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.
Thursday, Aug. 8:			
7.50 to 8.30 a. m.		Range gunnery	Duty.
8.35 to 10.05 a. m.	E. E. and P.	do	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	do	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Friday, Aug. 9:			
7.50 to 8.30 a. m.		Range gunnery	Duty.
8.35 to 10.05 a. m.	E. E. and P.	do	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	do	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Saturday, Aug. 10:			
7.50 to 8.30 a. m.		Range gunnery	Duty.
8.35 to 10.05 a. m.	E. E. and P.	do	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	do	Do.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.
COMPANY No. 3			
Monday, Aug. 12:			
7.50 to 8.30 a. m.		Range gunnery	Duty.
8.35 to 10.05 a. m.	E. E. and P.	do	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	do	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Tuesday, Aug. 13:			
7.50 to 8.30 a. m.		Range gunnery	Duty.
8.35 to 10.05 a. m.	E. E. and P.	do	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	do	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENTS OF EXECUTIVE, ORDNANCE AND GUNNERY, AND ELECTRICAL
ENGINEERING AND PHYSICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY No. 3			
Wednesday, Aug. 14:			
7.50 to 8.30 a. m.-----		Range gunnery-----	Duty.
8.35 to 10.05 a. m.-----	E. E. and P.-----	do-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	Do.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	Do.
Thursday, Aug. 15:			
7.50 to 8.30 a. m.-----		Range gunnery-----	Duty.
8.35 to 10.05 a. m.-----	E. E. and P.-----	do-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Friday, Aug. 16:			
7.50 to 8.30 a. m.-----		Range gunnery-----	Duty.
8.35 to 10.05 a. m.-----	E. E. and P.-----	do-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Saturday, Aug. 17:			
7.50 to 8.30 a. m.-----		Range gunnery-----	Duty.
8.35 to 10.05 a. m.-----	E. E. and P.-----	do-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	Do.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	Do.
COMPANY No. 4			
Monday, Aug. 19:			
7.50 to 8.30 a. m.-----		Range gunnery-----	Duty.
8.35 to 10.05 a. m.-----	E. E. and P.-----	do-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Tuesday, Aug. 20:			
7.50 to 8.30 a. m.-----		Range gunnery-----	Duty.
8.35 to 10.05 a. m.-----	E. E. and P.-----	do-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Wednesday, Aug. 21:			
7.50 to 8.30 a. m.-----		Range gunnery-----	Duty.
8.35 to 10.05 a. m.-----	E. E. and P.-----	do-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	Do.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	Do.
Thursday, Aug. 22:			
7.50 to 8.30 a. m.-----		Range gunnery-----	Duty.
8.35 to 10.05 a. m.-----	E. E. and P.-----	do-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.

*Summer schedule, 1929, for midshipmen of the second class—Continued*DEPARTMENTS OF EXECUTIVE, ORDNANCE AND GUNNERY, AND ELECTRICAL
ENGINEERING AND PHYSICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY No. 4—Continued			
Friday, Aug. 23:			
7.50 to 8.30 a. m.-----		Range gunnery-----	Duty.
8.35 to 10.05 a. m.-----	E. E. and P.-----	do-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Saturday, Aug. 24:			
7.50 to 8.30 a. m.-----		Range gunnery-----	Duty.
8.35 to 10.05 a. m.-----	E. E. and P.-----	do-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	Do.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	Do.
COMPANY No. 1			
Monday, Aug. 26:			
7.50 to 8.30 a. m.-----		Range gunnery-----	Duty.
8.35 to 10.05 a. m.-----	E. E. and P.-----	do-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Tuesday, Aug. 27:			
7.50 to 8.30 a. m.-----		Range gunnery-----	Duty.
8.35 to 10.05 a. m.-----	E. E. and P.-----	do-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Wednesday, Aug. 28:			
7.50 to 8.30 a. m.-----		Range gunnery-----	Duty.
8.35 to 10.05 a. m.-----	E. E. and P.-----	do-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	Do.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	Do.
Thursday, Aug. 29:			
7.50 to 8.30 a. m.-----		Range gunnery-----	Duty.
8.35 to 10.05 a. m.-----	E. E. and P.-----	do-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Friday, Aug. 30:			
7.50 to 8.30 a. m.-----		Range gunnery-----	Duty.
8.35 to 10.05 a. m.-----	E. E. and P.-----	do-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Saturday, Aug. 31:			
7.50 to 8.30 a. m.-----		Range gunnery-----	Duty.
8.35 to 10.05 a. m.-----	E. E. and P.-----	do-----	Do.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	do-----	Do.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	Do.

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENT OF ENGINEERING AND AERONAUTICS

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY No. 3			
Monday, June 10:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig- ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	do
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Tuesday, June 11:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig- ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	do
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Wednesday, June 12:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig- ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	do
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.
Thursday, June 13:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig- ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	do
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Friday, June 14:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig- ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	do
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Saturday, June 15:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	do
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.
COMPANY No. 4			
Monday, June 17:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	do
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENT OF ENGINEERING AND AERONAUTICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY No. 4—Continued			
Tuesday, June 18:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig- ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	do
1.30 to 3.30 p. m.	C. F. A	C. F. A	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Wednesday, June 19:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig- ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	do
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.
Thursday, June 20:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig- ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	do
1.30 to 3.30 p. m.	C. F. A	C. F. A	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Friday, June 21:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig- ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	do
1.30 to 3.30 p. m.	C. F. A	C. F. A	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Saturday, June 22:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	do
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.
COMPANY No. 1			
Monday, June 24:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig- ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	do
1.30 to 3.30 p. m.	C. F. A	C. F. A	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Tuesday, June 25:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig- ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	do
1.30 to 3.30 p. m.	C. F. A	C. F. A	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENT OF ENGINEERING AND AERONAUTICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY NO. 1—Continued			
Wednesday, June 26:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig- ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	Do.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.
Thursday, June 27:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig- ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Friday, June 28:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig- ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Saturday, June 29:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig- ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	Do.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.
COMPANY NO. 2			
Monday, July 1:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig- ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Tuesday, July 2:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig- ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	Do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Wednesday, July 3:			
7.50 to 8.30 a. m.	Test stand	Radio	Radio.
8.35 to 10.05 a. m.	do	Engine overhaul	Structure and rig- ging. Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	do	do	Do.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENT OF ENGINEERING AND AERONAUTICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY No. 2—Continued			
Thursday, July 4:-----	Holiday		
Friday, July 5:			
7.50 to 8.30 a. m.-----	Test stand.-----	Radio.-----	Radio.
8.35 to 10.05 a. m.-----	do.-----	Engine overhaul.-----	Structure and rig-
			ging.
10.10 to 11.30 a. m.-----	do.-----	do.-----	Do.
11.35 a. m. to 12.10 p. m.-----	do.-----		
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation.-----	Recreation.-----	Recreation.
Saturday, July 6:			
7.50 to 8.30 a. m.-----	Test stand.-----	Radio.-----	Radio.
8.35 to 10.05 a. m.-----	do.-----	Engine overhaul.-----	Structure and rig-
			ging.
10.10 to 11.30 a. m.-----	do.-----	do.-----	Do.
11.35 a. m. to 12.10 p. m.-----	do.-----		
1.30 to 3.30 p. m.-----	Recreation.-----	Recreation.-----	Recreation.
3.30 to 5.30 p. m.-----	do.-----	do.-----	Do.
COMPANY No. 3			
Monday, July 8:			
7.50 to 8.30 a. m.-----	Radio.-----	Radio.-----	Test stand.
8.35 to 10.05 a. m.-----	Engine overhaul.-----	Structure and rigging.-----	Do.
10.10 to 10.30 a. m.-----	do.-----	do.-----	Do.
11.35 a. m. to 12.10 p. m.-----			Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation.-----	Recreation.-----	Recreation.
Tuesday, July 9:			
7.50 to 8.30 a. m.-----	Radio.-----	Radio.-----	Test stand.
8.35 to 10.05 a. m.-----	Engine overhaul.-----	Structure and rigging.-----	Do.
10.10 to 11.30 a. m.-----	do.-----	do.-----	Do.
11.35 a. m. to 12.10 p. m.-----			Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation.-----	Recreation.-----	Recreation.
Wednesday, July 10:			
7.50 to 8.30 a. m.-----	Radio.-----	Radio.-----	Test stand.
8.35 to 10.05 a. m.-----	Engine overhaul.-----	Structure and rigging.-----	Do.
10.10 to 11.30 a. m.-----	do.-----	do.-----	Do.
11.35 a. m. to 12.10 p. m.-----			Do.
1.30 to 3.30 p. m.-----	Recreation.-----	Recreation.-----	Recreation.
3.30 to 5.30 p. m.-----	do.-----	do.-----	Do.
Thursday, July 11:			
7.50 to 8.30 a. m.-----	Radio.-----	Radio.-----	Test stand.
8.35 to 10.05 a. m.-----	Engine overhaul.-----	Structure and rigging.-----	Do.
10.10 to 11.30 a. m.-----	do.-----	do.-----	Do.
11.35 a. m. to 12.10 p. m.-----			Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation.-----	Recreation.-----	Recreation.
Friday, July 12:			
7.50 to 8.30 a. m.-----	Radio.-----	Radio.-----	Test stand.
8.35 to 10.05 a. m.-----	Engine overhaul.-----	Structure and rigging.-----	Do.
10.10 to 11.30 a. m.-----	do.-----	do.-----	Do.
11.35 a. m. to 12.10 p. m.-----			Do.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation.-----	Recreation.-----	Recreation.

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENT OF ENGINEERING AND AERONAUTICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY No. 3—Continued			
Saturday, July 13:			
7.50 to 8.30 a. m.	Radio.....	Radio.....	Test stand.
8.35 to 10.05 a. m.	Engine overhaul.....	Structure and rigging.....	Do.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	do.....	do.....	Do.
1.30 to 3.30 p. m.	Recreation.....	Recreation.....	Recreation.
3.30 to 5.30 p. m.	do.....	do.....	Do.
COMPANY No. 4			
Monday, July 15:			
7.50 to 8.30 a. m.	Radio.....	Radio.....	Test stand.
8.35 to 10.05 a. m.	Engine overhaul.....	Structure and rigging.....	Do.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	do.....	do.....	Do.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.
Tuesday, July 16:			
7.50 to 8.30 a. m.	Radio.....	Radio.....	Test stand.
8.35 to 10.05 a. m.	Engine overhaul.....	Structure and rigging.....	Do.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	do.....	do.....	Do.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.
Wednesday, July 17:			
7.50 to 8.30 a. m.	Radio.....	Radio.....	Test stand.
8.35 to 10.05 a. m.	Engine overhaul.....	Structure and rigging.....	Do.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	do.....	do.....	Do.
1.30 to 3.30 p. m.	Recreation.....	Recreation.....	Recreation.
3.30 to 5.30 p. m.	do.....	do.....	Do.
Thursday, July 18:			
7.50 to 8.30 a. m.	Radio.....	Radio.....	Test stand.
8.35 to 10.05 a. m.	Engine overhaul.....	Structure and rigging.....	Do.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	do.....	do.....	Do.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.
Friday, July 19:			
7.50 to 8.30 a. m.	Radio.....	Radio.....	Test stand.
8.35 to 10.05 a. m.	Engine overhaul.....	Structure and rigging.....	Do.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	do.....	do.....	Do.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.
Saturday, July 20:			
7.50 to 8.30 a. m.	Radio.....	Radio.....	Test stand.
8.35 to 10.05 a. m.	Engine overhaul.....	Structure and rigging.....	Do.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	do.....	do.....	Do.
1.30 to 3.30 p. m.	Recreation.....	Recreation.....	Recreation.
3.30 to 5.30 p. m.	do.....	do.....	Do.
COMPANY No. 1			
Monday, July 22:			
7.50 to 8.30 a. m.	Radio.....	Radio.....	Test stand.
8.35 to 10.05 a. m.	Engine overhaul.....	Structure and rigging.....	Do.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	do.....	do.....	Do.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENT OF ENGINEERING AND AERONAUTICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY No. 3—Continued			
Tuesday, July 23:			
7.50 to 8.30 a. m.	Radio	Radio	Test stand.
8.35 to 10.05 a. m.	Engine overhaul	Structure and rigging	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m. ....	.....	.....	Do.
1.30 to 3.30 p. m.	C. F. A	C. F. A	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Wednesday, July 24:			
7.50 to 8.30 a. m.	Radio	Radio	Test stand.
8.35 to 10.05 a. m.	Engine overhaul	Structure and rigging	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m. ....	.....	.....	Do.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.
Thursday, July 25:			
7.50 to 8.30 a. m.	Radio	Radio	Test stand.
8.35 to 10.05 a. m.	Engine overhaul	Structure and rigging	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m. ....	.....	.....	Do.
1.30 to 3.30 p. m.	C. F. A	C. F. A	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Friday, July 26:			
7.50 to 8.30 a. m.	Radio	Radio	Test stand.
8.35 to 10.05 a. m.	Engine overhaul	Structure and rigging	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m. ....	.....	.....	Do.
1.30 to 3.30 p. m.	C. F. A	C. F. A	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Saturday, July 27:			
7.50 to 8.30 a. m.	Radio	Radio	Test stand.
8.35 to 10.05 a. m.	Engine overhaul	Structure and rigging	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m. ....	.....	.....	Do.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.
COMPANY No. 2			
Monday, July 29:			
7.50 to 8.30 a. m.	Radio	Radio	Test stand.
8.35 to 10.05 a. m.	Engine overhaul	Structure and rigging	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m. ....	.....	.....	Do.
1.30 to 3.30 p. m.	C. F. A	C. F. A	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Tuesday, July 30:			
7.50 to 8.30 a. m.	Radio	Radio	Test stand.
8.35 to 10.05 a. m.	Engine overhaul	Structure and rigging	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m. ....	.....	.....	Do.
1.30 to 3.30 p. m.	C. F. A	C. F. A	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Wednesday, July 31:			
7.50 to 8.30 a. m.	Radio	Radio	Test stand.
8.35 to 10.05 a. m.	Engine overhaul	Structure and rigging	Do.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m. ....	.....	.....	Do.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENT OF ENGINEERING AND AERONAUTICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY No. 2—Continued			
Thursday, Aug. 1:			
7.50 to 8.30 a. m.-----	Radio.....	Radio.....	Test stand.
8.35 to 10.05 a. m.-----	Engine overhaul.....	Structure and rigging.....	Do.
10.10 to 11.30 a. m.-----	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.-----	do.....	do.....	Do.
1.30 to 3.30 p. m.-----	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.-----	Recreation.....	Recreation.....	Recreation.
Friday, Aug. 2:			
7.50 to 8.30 a. m.-----	Radio.....	Radio.....	Test stand.
8.35 to 10.05 a. m.-----	Engine overhaul.....	Structure and rigging.....	Do.
10.10 to 11.30 a. m.-----	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.-----	do.....	do.....	Do.
1.30 to 3.30 p. m.-----	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.-----	Recreation.....	Recreation.....	Recreation.
Saturday, Aug. 3:			
7.50 to 8.30 a. m.-----	Radio.....	Radio.....	Test stand.
8.35 to 10.05 a. m.-----	Engine overhaul.....	Structure and rigging.....	Do.
10.10 to 11.30 a. m.-----	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.-----	do.....	do.....	Do.
1.30 to 3.30 p. m.-----	Recreation.....	Recreation.....	Recreation.
3.30 to 5.30 p. m.-----	do.....	do.....	Do
COMPANY No 3			
Monday, Aug. 5:			
7.50 to 8.30 a. m.-----	Radio.....	Test stand.....	Radio.
8.35 to 10.05 a. m.-----	Structure and rigging.....	do.....	Engine overhaul.
10.10 to 11.30 a. m.-----	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.-----	do.....	do.....	do.....
1.30 to 3.30 p. m.-----	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.-----	Recreation.....	Recreation.....	Recreation.
Tuesday, Aug. 6:			
7.50 to 8.30 a. m.-----	Radio.....	Test stand.....	Radio.
8.35 to 10.05 a. m.-----	Structure and rigging.....	do.....	Engine overhaul.
10.10 to 11.30 a. m.-----	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.-----	do.....	do.....	do.....
1.30 to 3.30 p. m.-----	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.-----	Recreation.....	Recreation.....	Recreation.
Wednesday, Aug. 7:			
7.50 to 8.30 a. m.-----	Radio.....	Test stand.....	Radio.
8.35 to 10.05 a. m.-----	Structure and rigging.....	do.....	Engine overhaul.
10.10 to 11.30 a. m.-----	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.-----	do.....	do.....	do.....
1.30 to 3.30 p. m.-----	Recreation.....	Recreation.....	Recreation.
3.30 to 5.30 p. m.-----	do.....	do.....	Do.
Thursday, Aug. 8:			
7.50 to 8.30 a. m.-----	Radio.....	Test stand.....	Radio.
8.35 to 10.05 a. m.-----	Structure and rigging.....	do.....	Engine overhaul.
10.10 to 11.30 a. m.-----	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.-----	do.....	do.....	do.....
1.30 to 3.30 p. m.-----	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.-----	Recreation.....	Recreation.....	Recreation.
Friday, Aug. 9:			
7.50 to 8.30 a. m.-----	Radio.....	Test stand.....	Radio.
8.35 to 10.05 a. m.-----	Structure and rigging.....	do.....	Engine overhaul.
10.10 to 11.30 a. m.-----	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.-----	do.....	do.....	do.....
1.30 to 3.30 p. m.-----	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.-----	Recreation.....	Recreation.....	Recreation.

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENT OF ENGINEERING AND AERONAUTICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY NO. 3—Continued			
Saturday, Aug. 10:			
7.50 to 8.30 a. m.-----	Radio-----	Test stand-----	Radio-----
8.35 to 10.05 a. m.-----	Structure and rigging-----	do-----	Engine overhaul-----
10.10 to 11.30 a. m.-----	do-----	do-----	Do-----
11.35 a. m. to 12.10 p. m.-----	do-----	do-----	do-----
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation-----
3.30 to 5.30 p. m.-----	do-----	do-----	Do-----
COMPANY NO. 4			
Monday, Aug. 12:			
7.50 to 8.30 a. m.-----	Radio-----	Test stand-----	Radio-----
8.35 to 10.05 a. m.-----	Structure and rigging-----	do-----	Engine overhaul-----
10.10 to 11.30 a. m.-----	do-----	do-----	Do-----
11.35 a. m. to 12.10 p. m.-----	do-----	do-----	do-----
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A-----
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation-----
Tuesday, Aug. 13:			
7.50 to 8.30 a. m.-----	Radio-----	Test stand-----	Radio-----
8.35 to 10.05 a. m.-----	Structure and rigging-----	do-----	Engine overhaul-----
10.10 to 11.30 a. m.-----	do-----	do-----	Do-----
11.35 a. m. to 12.10 p. m.-----	do-----	do-----	do-----
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A-----
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation-----
Wednesday, Aug. 14:			
7.50 to 8.30 a. m.-----	Radio-----	Test stand-----	Radio-----
8.35 to 10.05 a. m.-----	Structure and rigging-----	do-----	Engine overhaul-----
10.10 to 11.30 a. m.-----	do-----	do-----	Do-----
11.35 a. m. to 12.10 p. m.-----	do-----	do-----	do-----
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation-----
3.30 to 5.30 p. m.-----	do-----	do-----	Do-----
Thursday, Aug. 15:			
7.50 to 8.30 a. m.-----	Radio-----	Test stand-----	Radio-----
8.35 to 10.05 a. m.-----	Structure and rigging-----	do-----	Engine overhaul-----
10.10 to 11.30 a. m.-----	do-----	do-----	Do-----
11.35 a. m. to 12.10 p. m.-----	do-----	do-----	do-----
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A-----
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation-----
Friday, Aug. 16:			
7.50 to 8.30 a. m.-----	Radio-----	Test stand-----	Radio-----
8.35 to 10.05 a. m.-----	Structure and rigging-----	do-----	Engine overhaul-----
10.10 to 11.30 a. m.-----	do-----	do-----	Do-----
11.35 a. m. to 12.10 p. m.-----	do-----	do-----	do-----
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A-----
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation-----
Saturday, Aug. 17:			
7.50 to 8.30 a. m.-----	Radio-----	Test stand-----	Radio-----
8.35 to 10.05 a. m.-----	Structure and rigging-----	do-----	Engine overhaul-----
10.10 to 11.30 a. m.-----	do-----	do-----	Do-----
11.35 a. m. to 12.10 p. m.-----	do-----	do-----	do-----
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation-----
3.30 to 5.30 p. m.-----	do-----	do-----	Do-----
COMPANY NO. 1			
Monday, Aug. 19:			
7.50 to 8.30 a. m.-----	Radio-----	Test stand-----	Radio-----
8.35 to 10.05 a. m.-----	Structure and rigging-----	do-----	Engine overhaul-----
10.10 to 11.30 a. m.-----	do-----	do-----	Do-----
11.35 a. m. to 12.10 p. m.-----	do-----	do-----	do-----
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A-----
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation-----

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENT OF ENGINEERING AND AERONAUTICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY NO. 1—Continued			
Tuesday, Aug. 20:			
7.50 to 8.30 a. m.	Radio	Test stand	Radio.
8.35 to 10.05 a. m.	Structure and rigging.	do.	Engine overhaul.
10.10 to 11.30 a. m.	do.	do.	Do.
11.35 a. m. to 12.10 p. m.	do.	do.	do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation.	Recreation.	Recreation.
Wednesday, Aug. 21:			
7.50 to 8.30 a. m.	Radio	Test stand	Radio.
8.35 to 10.05 a. m.	Structure and rigging.	do.	Engine overhaul.
10.10 to 11.30 a. m.	do.	do.	Do.
11.35 a. m. to 12.10 p. m.	do.	do.	do.
1.30 to 3.30 p. m.	Recreation.	Recreation.	Recreation.
3.30 to 5.30 p. m.	do.	do.	Do.
Thursday, Aug. 22:			
7.50 to 8.30 a. m.	Radio	Test stand	Radio.
8.35 to 10.05 a. m.	Structure and rigging.	do.	Engine overhaul.
10.10 to 11.30 a. m.	do.	do.	Do.
11.35 a. m. to 12.10 p. m.	do.	do.	do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation.	Recreation.	Recreation.
Friday, Aug. 23:			
7.50 to 8.30 a. m.	Radio	Test stand	Radio.
8.35 to 10.05 a. m.	Structure and rigging.	do.	Engine overhaul.
10.10 to 11.30 a. m.	do.	do.	Do.
11.35 a. m. to 12.10 p. m.	do.	do.	do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation.	Recreation.	Recreation.
Saturday, Aug. 24:			
7.50 to 8.30 a. m.	Radio	Test stand	Radio.
8.35 to 10.05 a. m.	Structure and rigging.	do.	Engine overhaul.
10.10 to 11.30 a. m.	do.	do.	Do.
11.35 a. m. to 12.10 p. m.	do.	do.	do.
1.30 to 3.30 p. m.	Recreation.	Recreation.	Recreation.
3.30 to 5.30 p. m.	do.	do.	Do.
COMPANY NO. 2			
Monday, Aug. 26:			
7.50 to 8.30 a. m.	Radio	Test stand	Radio.
8.35 to 10.05 a. m.	Structure and rigging.	do.	Engine overhaul.
10.10 to 11.30 a. m.	do.	do.	Do.
11.35 a. m. to 12.10 p. m.	do.	do.	do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation.	Recreation.	Recreation.
Tuesday, Aug. 27:			
7.50 to 8.30 a. m.	Radio	Test stand	Radio.
8.35 to 10.05 a. m.	Structure and rigging.	do.	Engine overhaul.
10.10 to 11.30 a. m.	do.	do.	Do.
11.35 a. m. to 12.10 p. m.	do.	do.	do.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation.	Recreation.	Recreation.
Wednesday, Aug. 28:			
7.50 to 8.30 a. m.	Radio	Test stand	Radio.
8.35 to 10.05 a. m.	Structure and rigging.	do.	Engine overhaul.
10.10 to 11.30 a. m.	do.	do.	Do.
11.35 a. m. to 12.10 p. m.	do.	do.	do.
1.30 to 3.30 p. m.	Recreation.	Recreation.	Recreation.
3.30 to 5.30 p. m.	do.	do.	Do.

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENT OF ENGINEERING AND AERONAUTICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY No. 2—Continued			
Thursday, Aug. 29:			
7.50 to 8.30 a. m.	Radio	Test stand	Radio
8.35 to 10.05 a. m.	Structure and rigging	do	Engine overhaul
10.10 to 11.30 a. m.	do	do	Do
11.35 a. m. to 12.10 p. m.	do	do	do
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation
Friday, Aug. 30:			
7.50 to 8.30 a. m.	Radio	Test stand	Radio
8.35 to 10.05 a. m.	Structure and rigging	do	Engine overhaul
10.10 to 11.30 a. m.	do	do	Do
11.35 a. m. to 12.10 p. m.	do	do	do
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation
Saturday, Aug. 31:			
7.50 to 8.30 a. m.	Radio	Test stand	Radio
8.35 to 10.05 a. m.	Structure and rigging	do	Engine overhaul
10.10 to 11.30 a. m.	do	do	Do
11.35 a. m. to 12.10 p. m.	do	do	do
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation
3.30 to 5.30 p. m.	do	do	Do
COMPANY No. 4			
Monday, June 10:			
8.35 to 10.05 a. m.	Boilers	Auxiliary machinery	Engines
10.10 to 11.30 a. m.	do	do	Do
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation
Tuesday, June 11:			
8.35 to 10.05 a. m.	Boilers	Auxiliary machinery	Engines
10.10 to 11.30 a. m.	do	do	Do
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation
Wednesday, June 12:			
8.35 to 10.05 a. m.	Boilers	Auxiliary machinery	Engines
10.10 to 11.30 a. m.	do	do	Do
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation
3.30 to 5.30 p. m.	do	do	Do
Thursday, June 13:			
8.35 to 10.05 a. m.	Boilers	Auxiliary machinery	Engines
10.10 to 11.30 a. m.	do	do	Do
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation
Friday, June 14:			
8.35 to 10.05 a. m.	Boilers	Auxiliary machinery	Engines
10.10 to 11.30 a. m.	do	do	Do
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation
Saturday, June 15:			
8.35 to 10.05 a. m.	Boilers	Auxiliary machinery	Engines
10.10 to 11.30 a. m.	do	do	Do
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation
3.30 to 5.30 p. m.	do	do	Do

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENT OF ENGINEERING AND AERONAUTICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY No. 1			
Monday, June 17:			
8.35 to 10.05 a. m.	Boilers.....	Auxiliary machinery..	Engines.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	Radio.....	Radio.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.
Tuesday, June 18:			
8.35 to 10.05 a. m.	Boilers.....	Auxiliary machinery..	Engines.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	Radio.....	Radio.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.
Wednesday, June 19:			
8.35 to 10.05 a. m.	Boilers.....	Auxiliary machinery..	Engines.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	Radio.....	Radio.
1.30 to 3.30 p. m.	Recreation.....	Recreation.....	Recreation.
3.30 to 5.30 p. m.	do.....	do.....	Do.
Thursday, June 20:			
8.35 to 10.05 a. m.	Boilers.....	Auxiliary machinery..	Engines.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	Radio.....	Radio.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.
Friday, June 21:			
8.35 to 10.05 a. m.	Boilers.....	Auxiliary machinery..	Engines.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	Radio.....	Radio.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.
Saturday, June 22:			
8.35 to 10.05 a. m.	Boilers.....	Auxiliary machinery..	Engines.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	Radio.....	Radio.
1.30 to 3.30 p. m.	Recreation.....	Recreation.....	Recreation.
3.30 to 5.30 p. m.	do.....	do.....	Do.
COMPANY No. 2			
Monday, June 24:			
8.35 to 10.05 a. m.	Boilers.....	Auxiliary machinery..	Engines.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	Radio.....	Radio.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.
Tuesday, June 25:			
8.35 to 10.05 a. m.	Boilers.....	Auxiliary machinery..	Engines.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	Radio.....	Radio.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.
Wednesday, June 26:			
8.35 to 10.05 a. m.	Boilers.....	Auxiliary machinery..	Engines.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	Radio.....	Radio.
1.30 to 3.30 p. m.	Recreation.....	Recreation.....	Recreation.
3.30 to 5.30 p. m.	do.....	do.....	Do.

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENT OF ENGINEERING AND AERONAUTICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY NO. 2—Continued			
Thursday, June 27:			
8.35 to 10.05 a. m.-----	Boilers-----	Auxiliary machinery--	Engines.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Friday, June 28:			
8.35 to 10.05 a. m.-----	Boilers-----	Auxiliary machinery--	Engines.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Saturday, June 29:			
8.35 to 10.05 a. m.-----	Boilers-----	Auxiliary machinery--	Engines.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	Do.
COMPANY NO. 3			
Monday, July 1:			
8.35 to 10.05 a. m.-----	Boilers-----	Auxiliary machinery--	Engines.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Tuesday, July 2:			
8.35 to 10.05 a. m.-----	Boilers-----	Auxiliary machinery--	Engines.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Wednesday, July 3:			
8.35 to 10.05 a. m.-----	Boilers-----	Auxiliary machinery--	Engines.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	Do.
Thursday, July 4-----			
Holiday			
Friday, July 5:			
8.35 to 10.05 a. m.-----	Boilers-----	Auxiliary machinery--	Engines.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Saturday, July 6:			
8.35 to 10.05 a. m.-----	Boilers-----	Auxiliary machinery--	Engines.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	Do.

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENT OF ENGINEERING AND AERONAUTICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY NO. 4			
Monday, July 8:			
8.35 to 10.05 a. m.	Auxiliary machinery ..	Engines ..	Boilers.
10.10 to 11.30 a. m.	do ..	do ..	Do.
11.35 a. m. to 12.10 p. m.	Radio ..	Radio ..	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation ..	Recreation ..	Recreation.
Tuesday, July 9:			
8.35 to 10.05 a. m.	Auxiliary machinery ..	Engines ..	Boilers.
10.10 to 11.30 a. m.	do ..	do ..	Do.
11.35 a. m. to 12.10 p. m.	Radio ..	Radio ..	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation ..	Recreation ..	Recreation.
Wednesday, July 10:			
8.35 to 10.05 a. m.	Auxiliary machinery ..	Engines ..	Boilers.
10.10 to 11.30 a. m.	do ..	do ..	Do.
11.35 a. m. to 12.10 p. m.	Radio ..	Radio ..	Radio.
1.30 to 3.30 p. m.	Recreation ..	Recreation ..	Recreation.
3.30 to 5.30 p. m.	do ..	do ..	Do.
Thursday, July 11:			
8.35 to 10.05 a. m.	Auxiliary machinery ..	Engines ..	Boilers.
10.10 to 11.30 a. m.	do ..	do ..	Do.
11.35 a. m. to 12.10 p. m.	Radio ..	Radio ..	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation ..	Recreation ..	Recreation.
Friday, July 12:			
8.35 to 10.05 a. m.	Auxiliary machinery ..	Engines ..	Boilers.
10.10 to 11.30 a. m.	do ..	do ..	Do.
11.35 a. m. to 12.10 p. m.	Radio ..	Radio ..	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation ..	Recreation ..	Recreation.
Saturday, July 13:			
8.35 to 10.05 a. m.	Auxiliary machinery ..	Engines ..	Boilers.
10.10 to 11.30 a. m.	do ..	do ..	Do.
11.35 a. m. to 12.10 p. m.	Radio ..	Radio ..	Radio.
1.30 to 3.30 p. m.	Recreation ..	Recreation ..	Recreation.
3.30 to 5.30 p. m.	do ..	do ..	Do.
COMPANY NO. 1			
Monday, July 15:			
8.35 to 10.05 a. m.	Auxiliary machinery ..	Engines ..	Boilers.
10.10 to 11.30 a. m.	do ..	do ..	Do.
11.35 a. m. to 12.10 p. m.	Radio ..	Radio ..	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation ..	Recreation ..	Recreation
Tuesday July 16:			
8.35 to 10.05 a. m.	Auxiliary machinery ..	Engines ..	Boilers.
10.10 to 11.30 a. m.	do ..	do ..	Do.
11.35 a. m. to 12.10 p. m.	Radio ..	Radio ..	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation ..	Recreation ..	Recreation.
Wednesday, July 17:			
8.35 to 10.05 a. m.	Auxiliary machinery ..	Engines ..	Boilers.
10.10 to 11.30 a. m.	do ..	do ..	Do.
11.35 a. m. to 12.10 p. m.	Radio ..	Radio ..	Radio.
1.30 to 3.30 p. m.	Recreation ..	Recreation ..	Recreation
3.30 to 5.30 p. m.	do ..	do ..	Do.

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENT OF ENGINEERING AND AERONAUTICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY No. 1—Continued			
Thursday, July 18:			
8.35 to 10.05 a. m.	Auxiliary machinery ..	Engines.....	Boilers.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	Radio.....	Radio.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.
Friday, July 19:			
8.35 to 10.05 a. m.	Auxiliary machinery ..	Engines.....	Boilers.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	Radio.....	Radio.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.
Saturday, July 20:			
8.35 to 10.05 a. m.	Auxiliary machinery ..	Engines.....	Boilers.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	Radio.....	Radio.
1.30 to 3.30 p. m.	Recreation.....	Recreation.....	Recreation.
3.30 to 5.30 p. m.	do.....	do.....	Do.
COMPANY No. 2			
Monday, July 22:			
8.35 to 10.05 a. m.	Auxiliary machinery ..	Engines.....	Boilers.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	Radio.....	Radio.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.
Tuesday, July 23:			
8.35 to 10.05 a. m.	Auxiliary machinery ..	Engines.....	Boilers.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	Radio.....	Radio.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.
Wednesday, July 24:			
8.35 to 10.05 a. m.	Auxiliary machinery ..	Engines.....	Boilers.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	Radio.....	Radio.
1.30 to 3.30 p. m.	Recreation.....	Recreation.....	Recreation.
3.30 to 5.30 p. m.	do.....	do.....	Do.
Thursday, July 25:			
8.35 to 10.05 a. m.	Auxiliary machinery ..	Engines.....	Boilers.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	Radio.....	Radio.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.
Friday, July 26:			
8.35 to 10.05 a. m.	Auxiliary machinery ..	Engines.....	Boilers.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	Radio.....	Radio.
1.30 to 3.30 p. m.	C. F. A.....	C. F. A.....	C. F. A.
3.30 to 5.30 p. m.	Recreation.....	Recreation.....	Recreation.
Saturday, July 27:			
8.35 to 10.05 a. m.	Auxiliary machinery ..	Engines.....	Boilers.
10.10 to 11.30 a. m.	do.....	do.....	Do.
11.35 a. m. to 12.10 p. m.	Radio.....	Radio.....	Radio.
1.30 to 3.30 p. m.	Recreation.....	Recreation.....	Recreation.
3.30 to 5.30 p. m.	do.....	do.....	Do.

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENT OF ENGINEERING AND AERONAUTICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY No. 3			
Monday, July 29:			
8.35 to 10.05 a. m.	Auxiliary machinery	Engines	Boilers.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Tuesday, July 30:			
8.35 to 10.05 a. m.	Auxiliary machinery	Engines	Boilers.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Wednesday, July 31:			
8.35 to 10.05 a. m.	Auxiliary machinery	Engines	Boilers.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.
Thursday, Aug. 1:			
8.35 to 10.05 a. m.	Auxiliary machinery	Engines	Boilers.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Friday, Aug. 2:			
8.35 to 10.05 a. m.	Auxiliary machinery	Engines	Boilers.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Saturday, Aug. 3:			
8.35 to 10.05 a. m.	Auxiliary machinery	Engines	Boilers.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.
COMPANY No. 4			
Monday, Aug. 5:			
8.35 to 10.05 a. m.	Engines	Boilers	Auxiliary machinery.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Tuesday, Aug. 6:			
8.35 to 10.05 a. m.	Engines	Boilers	Auxiliary machinery.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Wednesday, Aug. 7:			
8.35 to 10.05 a. m.	Engines	Boilers	Auxiliary machinery.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENT OF ENGINEERING AND AERONAUTICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY NO. 4—Continued			
Thursday, Aug. 8:			
8.35 to 10.05 a. m.	Engines	Boilers	Auxiliary machinery.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Friday, Aug. 9:			
8.35 to 10.05 a. m.	Engines	Boilers	Auxiliary machinery.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Saturday, Aug. 10:			
8.35 to 10.05 a. m.	Engines	Boilers	Auxiliary machinery.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.
COMPANY NO. 1			
Monday, Aug. 12:			
8.35 to 10.05 a. m.	Engines	Boilers	Auxiliary machinery
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Tuesday, Aug. 13:			
8.35 to 10.05 a. m.	Engines	Boilers	Auxiliary machinery.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Wednesday, Aug. 14:			
8.35 to 10.05 a. m.	Engines	Boilers	Auxiliary machinery.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.
Thursday, Aug. 15:			
8.35 to 10.05 a. m.	Engines	Boilers	Auxiliary machinery.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Friday, Aug. 16:			
8.35 to 10.05 a. m.	Engines	Boilers	Auxiliary machinery.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio.
1.30 to 3.30 p. m.	C. F. A.	C. F. A.	C. F. A.
3.30 to 5.30 p. m.	Recreation	Recreation	Recreation.
Saturday, Aug. 17:			
8.35 to 10.05 a. m.	Engines	Boilers	Auxiliary machinery.
10.10 to 11.30 a. m.	do	do	Do.
11.35 a. m. to 12.10 p. m.	Radio	Radio	Radio.
1.30 to 3.30 p. m.	Recreation	Recreation	Recreation.
3.30 to 5.30 p. m.	do	do	Do.

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENT OF ENGINEERING AND AERONAUTICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY No. 2			
Monday, Aug. 19:			
8.35 to 10.05 a. m.-----	Engines-----	Boilers-----	Auxiliary machinery.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Tuesday, Aug. 20:			
8.35 to 10.05 a. m.-----	Engines-----	Boilers-----	Auxiliary machinery.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Wednesday, Aug. 21:			
8.35 to 10.05 a. m.-----	Engines-----	Boilers-----	Auxiliary machinery.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	Do.
Thursday, Aug. 22:			
8.35 to 10.05 a. m.-----	Engines-----	Boilers-----	Auxiliary machinery.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Friday, Aug. 23:			
8.35 to 10.05 a. m.-----	Engines-----	Boilers-----	Auxiliary machinery.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Saturday, Aug. 24:			
8.35 to 10.05 a. m.-----	Engines-----	Boilers-----	Auxiliary machinery.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	Do.
COMPANY No. 3			
Monday, Aug. 26:			
8.35 to 10.05 a. m.-----	Engines-----	Boilers-----	Auxiliary machinery.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Tuesday, Aug. 27:			
8.35 to 10.05 a. m.-----	Engines-----	Boilers-----	Auxiliary machinery.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	C. F. A-----	C. F. A-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Wednesday, Aug. 28:			
8.35 to 10.05 a. m.-----	Engines-----	Boilers-----	Auxiliary machinery.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
3.30 to 5.30 p. m.-----	do-----	do-----	Do.

Summer schedule, 1929, for midshipmen of the second class—Continued

DEPARTMENT OF ENGINEERING AND AERONAUTICS—Continued

Date	Platoon 1	Platoon 2	Platoon 3
COMPANY NO 3—Continued			
Thursday, Aug. 29:			
8.35 to 10.05 a. m.-----	Engines-----	Boilers-----	Auxiliary machinery.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Friday, Aug. 30:			
8.35 to 10.05 a. m.-----	Engines-----	Boilers-----	Auxiliary machinery.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.
Saturday, Aug. 31:			
8.35 to 10.05 a. m.-----	Engines-----	Boilers-----	Auxiliary machinery.
10.10 to 11.30 a. m.-----	do-----	do-----	Do.
11.35 a. m. to 12.10 p. m.-----	Radio-----	Radio-----	Radio.
1.30 to 3.30 p. m.-----	C. F. A.-----	C. F. A.-----	C. F. A.
3.30 to 5.30 p. m.-----	Recreation-----	Recreation-----	Recreation.

Second class organization, summer 1929

Battalion commander, Braught, C. F. (4).

Adjutant, Farquharson, R. B., jr. (1).

Subcommander, Torgerson, T. A. (2).

Commissary, Hibschan, M. W. (3).

	First Company	Second Company	Third Company	Fourth Company
Company commander.	Andrews, R. S.-----	Veasey, A. C.-----	Fabian, R. J.-----	Forde, G. S. J.
Chief petty officer.	Moore, L. S.-----	Betts, S. W.-----	Murphy, J. A.-----	Bauer, D. A.
First platoon commander.	Hagberg, O. E.-----	Sieglaiff, W. B.-----	Ellis, L. A.-----	Fitzgerald, W. H.
Second platoon commander.	Flynn, J. E.-----	Wood, J. M.-----	Gannon, J. W.-----	Castree, J. F.
Third platoon commander.	Williams, R. C., jr.-----	Thorn, W. A.-----	Brunelli, A. R.-----	Jones, R. F.
First platoon mustering petty officer.	Holtzworth, E. C.-----	Gray, A. D.-----	Moulton, H. D.-----	Chandler, B. A.
Second platoon mustering petty officer.	Renken, H. A.-----	Holcomb, B. T., jr.-----	Steffanides, E. F., jr.-----	Thornton, J. T., jr.
Third platoon mustering petty officer.	Forbes, L. Q.-----	Wallace, F. L.-----	MacKenzie, G. K., jr.-----	Almgren, C. R.
First petty officer.	Powell, P. G., jr.-----	Kollock, F. N., jr.-----	Myer, J. A.-----	Hunter, R. P.
Do.	Cassedy, H.-----	Crane, L. O.-----	Peterson, R. W.-----	Cummings, D. M.
Do.	Fitzgerald, J. A.-----	Hall, N.-----	Engel, E. L.-----	Powell, G. N.
Do.	Freeman, G. F.-----	Freshour, W. M.-----	Kirkpatrick, C. C.-----	Ferguson, E. F.
Do.	Smith, R. K.-----	Brooks, C. B., jr.-----	Miner, J. O.-----	Gray, H. D.
Do.	Ketchum, G. L.-----	Fitch, R. A.-----	Grant, J. D.-----	Jones, R. E.
Do.	Hawkins, C.-----	Tenney, J. F.-----	Bowstrom, R. M.-----	McFarlane, D. J.
Do.	Hawk, C. V.-----	Swain, J. B.-----	Hollister, W. W.-----	Stuart, D. A.
Do.	Gillespie, T. E.-----	Webster, J. A.-----	MacDonald, D. J.-----	Straub, C. T.

Alphabetical list of those members of the class of 1931 (472) who were retained at the Naval Academy during the summer of 1929 to undergo practical instruction in aviation and engineering subjects

Abbott, H. J.	Brush, F. J.	Dodson, L. F.
Adair, N., jr.	Buchholz, G. W., jr.	Dorsett, O. F.
Adams, R. W.	Burns, E. S.	Drake, H. M.
Adams, W. H.	Burt, E. V.	Drum, A. B., jr.
Aldrich, C. W.	Butterfield, A. W.	Dunn, W. A.
Allen, E. H.	Byng, J. W.	Elden, R. W.
Allen, R. W.	Callaway, P. P.	Ellis, L. A.
Almgren, C. R.	Carr, B. L.	Ellsworth, E. B., jr.
Alston, A. H., jr.	Cashman, J. D.	Engel, E. L.
Anderson, C. E.	Cassedy, H.	Engelhardt, E. P.
Anderson, J. S.	Castree, J. F.	Ernest, R. N.
Anderson, R. K.	Chandler, B. A.	Evans, E. E.
Andrews, R. S.	Chew, J. L.	Fabian, R. J.
Antrim, R. N.	Child, H. P.	Fahle, R. S.
Ardito, W. A.	Clarke, P. W.	Farquharson, R. B., jr.
Ashworth, P. H.	Coffin, L. A.	Farrington, E. L.
Ashworth, T., jr.	Collett, J. D.	Fawcett, I.
Bailey, W. C.	Colwell, J. B.	Fellows, J. B., jr.
Barker, H. D.	Cone, J. I.	Felton, C. H.
Barr, C. H.	Cook, C. O., jr.	Ferguson, E. F.
Bass, R. H.	Cook, J. H., jr.	Ferrill, H. E.
Bater, H.	Cook, L. B.	Fiala, R. P.
Bauer, D. A.	Cooke, E. S.	Field, B. P. jr.
Beckmann, A. G.	Coon, D. O.	Firth, M. W.
Becton, F. J.	Cooper, H. C.	Fisher, E. W.
Beebe, R. P.	Cooper, R. W.	Fitch, R. A.
Bell, A. C.	Copeland, N. C.	Fitts, W. W.
Bellis, L. J.	Copeman, T. H.	Fitzgerald, J. A.
Bence, R. L.	Corliss, W. G.	Fitzgerald, W. H.
Berthold, K. C.	Cowell, L.	Flaherty, A. I.
Betts, S. W.	Cox, M. H.	Flynn, J. E.
Biglow, J. O.	Crane, L. O.	Fojt, R. E.
Bingham, E. M.	Crane, R. H.	Foley, F. J.
Black, J. D.	Crinkley, F. D.	Foley, J. F.
Black, O. F.	Crommelin, C. L.	Forbes, L. Q.
Blessman, E. M.	Crowley, J. D.	Forde, G. S. J.
Booth, C. T., 2d.	Crumpacker, J. W.	Forney, E. H., jr.
Bouve, W. L.	Cullinan, R. F., jr.	Foster, E. L.
Bowstrom, R. M.	Cumberledge, A. A.	Francisco, J.
Brace, F. R.	Cummings, D. M.	Fraser, A. D.
Braught, C. F.	Daniels, A. N.	Freeman, G. F.
Braun, W. B.	Daniels, D. V.	Freshour, W. M.
Brockway, J. H.	Davis, D. I.	Gaasterland, C. L.
Bronson, W.	Davis, J. H.	Gadrow, R. E.
Brooks, C. B., jr.	Day, C. A.	Gale, W. C.
Brossy, H. E.	Day, E. M.	Gallaher, W. E.
Brown, E. M.	De Metropolis, G.	Games, E. B.
Brown, N. K.	Dempsey, J. C.	Gannon, J. W.
Brown, R. S.	De Young, H. G.	Gardiner, J. M.
Brunelli, A. R.	Dillon, E. J.	Garton, W. M., jr.

Gaviglio, P. M.	Hunt, R. F., jr.	Lytle, E. S., jr.
Ghetzler, B.	Hunter, R. P.	MacDonald, D. J.
Gibson, W. F.	Hunter, W. A., jr.	MacDonald, L. D.
Gilbert, R. O., jr.	Huntley, J. D.	MacKenzie, G. K., jr.
Giles, W. J., jr.	Irons, A. H.	Mackert, R. W.
Gillespie, T. E.	Iverson, C.	Madden, G. B.
Gillette, R. G.	Jacobs, R. H.	Maloney, J. L.
Gimber, H. M. S., jr.	Janz, C. T.	Marshall, E. E.
Girard, C. A., jr.	Jensen, M. J.	Martin, M. T.
Gould, F. G.	Jett, C. M.	Massey, F.
Graham, D. S.	Johnsen, W. H.	Massingill, R. L.
Grant, J. D.	Johnson, H. T.	Mathers, A. L.
Gray, A. D.	Johnson, W. O.	Mathews, J. A., jr.
Gray, H. D.	Jones, A. A.	McAfee, J. S.
Gray, R. L.	Jones, A. B., jr.	McAllister, F. C., jr.
Greathouse, J. F.	Jones, C. R.	McCain, J. S., jr.
Greenbank, L. W.	Jones, R. E.	McCracken, J. D.
Greene, G. M.	Jones, R. F.	McCracken, R. R.
Greene, T. J.	Jung, K. E.	McCuddy, W. R.
Grinstead, L.	Just, J. F.	McDonald, E. A.
Guilbert, E. H.	Keithley, C. L.	McFarlane, D. J.
Gurnette, B. L.	Keller, A. J.	McKaig, W. V.
Hagberg, O. E.	Kelsey, J. H., jr.	McKay, B. M.
Hain, V. R.	Ketchum, G. L.	McKee, F. A.
Hale, H. H.	Kiehlbauch, J. V.	McKinney, C. W.
Hall, M., jr.	King, B. W.	McMahan, W. A.
Hall, N.	King, R. D.	McMahon, B. F.
Hamm, M.	King, V. A.	McManus, G. B.
Hammond, D. T.	Kinzie, F. A.	McMartin, J. M.
Harper, J. F., jr.	Kirkpatrick, C. C.	Meola, V. J.
Hatton, G. A.	Kirkpatrick, C. E.	Merkle, F. B.
Hawk, C. V.	Kirkpatrick, J. E.	Metsger, A. B.
Hawkins, C.	Klein, M. J.	Miles, L. T.
Hay, R. R.	Kollock, F. N., jr.	Miller, J. A.
Head, N. M.	Kunkle, G. O.	Miller, N. M.
Heilig, R. B.	Kurtz, T. R., jr.	Miner, J. O.
Hibschman, M. W.	Lamb, J. B.	Moeller, H. G.
Hill, A. J., jr.	Langdon, R. H.	Molumphy, G. G.
Hogan, T. W., jr.	Larson, H. I.	Moore, J. Robert.
Holcomb, B. T., jr.	Lawrence, S. J.	Moore, L. S.
Holden, H. W.	Lay, J. T.	Moring, W. E.
Hollingsworth, J. C.	Leeper, H. B.	Morris, D. S.
Hollister, W. W.	Lefevour, W. R.	Morrow, C. A., jr.
Holmes, M. S.	Leon, H. S.	Morrow, W. J., jr.
Holtz, A. H.	Leverton, J. W., jr.	Moses, M.
Holtzworth, E. C.	Lewellen, B. E.	Moss, C. R.
Hooper, E. B.	Lewis, N. W.	Motes, J. H., jr.
Howe, C. M., 3d.	Lief, S. A.	Mott, C. E.
Hoye, F. W.	Lillis, B. C., jr.	Moulton, H. D.
Hudson, L. C., jr.	Lizberg, C. A.	Mullins, H., jr.
Hudson, R. E.	Lockwood, R. E.	Mumford, S.
Huff, G. P.	Longton, E. W.	Murphy, J. A.
Hughes, J. N.	Lucas, C. C.	Myer, J. A.
Hughes, W. C., jr.	Lyon, H. B.	Myers, H.

Myhre, F. B. T.	Ryon, W. M.	Tucker, A. B., 3d.
Needham, R. C.	Sampson, R. R.	Tyra, T. D.
Nelson, R. H.	Sanns, N. J.	Uehling, G. A.
Nelson, S. E.	Schoeni, W. P.	Van Mater, S.
Nelson, S. T., jr.	Schultz, G. F.	Vaughn, C. S.
Nolan, R. L., jr.	Scrivner, F. H.	Veasey, A. C.
Norvell, W. C.	Seidel, H. E., jr.	Volk, L. F.
O'Brien, J. E.	Sell, C. F.	Vredenburgh, J. B.
O'Connor, M. G.	Shaffer, L. G.	Wackwitz, D. N.
O'Neill, E. J.	Sharp, A. E., jr.	Walker, R. P.
O'Toole, J. M.	Shields, W. T.	Walker, T. N.
Owens, S. D.	Shoemaker, C. T.	Wallace, F. L.
Palmer, C. K.	Shuey, C. H.	Walpole, K. C.
Palmer, G. R.	Sieglaflf, W. B.	Warman, N. E.
Pancake, L. S.	Sisko, W. J.	Weatherwax, H. P.
Parham, J. C., jr.	Slater, S. J.	Webster, J. A.
Parker, R. E.	Smith, A. J.	Weiler, J. B.
Parsons, W. K.	Smith, C. E.	Weir, F. U.
Payne, T. B.	Smith, J. E., jr.	Werts, C. L.
Payson, H., jr.	Smith, J. T.	Wheland, K. R.
Pearce, H. A.	Smith, N. E.	White, J. A.
Peckham, G. E.	Smith, R. K.	White, R., 3d.
Peery, G. A.	Snow, J. L.	White, Z. L., jr.
Peters, F. M., jr.	Soucek, V. H.	Wickens, J. L.
Peters, J. M.	South, J. C., jr.	Wier, H. R.
Peterson, R. W.	Stafford, A. E.	Wieseman, F. L.
Phifer, T. C.	Stauffer, J. B.	Wilber, D. T.
Pierce, Ransom, A.	Steel, R. J.	Wilbur, R. M.
Porter, S. H.	Steele, M. G.	Will, P. K.
Pottinger, W. K.	Steere, R. C.	Williams, G. K.
Powell, G. N.	Steffanides, E. F., jr.	Williams, H., jr.
Powell, P. G., jr.	Steinke, F. S.	Williams, J. B.
Prescott, J. G. F.	Stewart, A. P.	Williams, L. W.
Putnam, F. R.	Stewart, W. J.	Williams, R. C., jr.
Quilter, E. S.	Stieler, R. E.	Williamson, F. T.
Railsback, E. F.	Stone, G. R.	Wilson, A. H., jr.
Ramage, L. P.	Straub, C. T.	Wilson, A. L.
Raysbrook, F. G.	Stromback, P. C.	Wilson, G. S.
Reed, A. L.	Stuart, D. A.	Wirtz, P. L.
Reese, J. S.	Swain, J. B.	Wood, J. M.
Renken, H. A.	Swisher, L. N.	Wood, L. O.
Reynolds, J. R. Z.	Tatom, E.	Woodaman, R. J.
Richardson, A. F.	Taxis, S. G.	Woods, W. P.
Richie, C. A.	Taylor, Robert L.	Wright, D. G., jr.
Rivero, H., jr.	Tenney, J. F.	Wright, E. A.
Robbins, B. A., jr.	Theobald, R. A., jr.	Wright, F. W., jr.
Robertson, E. L., jr.	Thomas, W. M.	Wright, S. B.
Roeder, B. F.	Thompson, W. R.	Wright, W. R.
Roessler, A. C.	Thorn, W. A.	Wulff, J. T.
Rogers, T. W.	Thornton, J. T., jr.	Yancey, E. W.
Romberg, A. K.	Torgerson, T. A.	Young, A. L., jr.
Roscoe, D. L., jr.	Toth, J. C.	Zuntag, A. A.
Rouse, L. M.	Trenholme, E. P.	
Russell, H. B.	Tripi, I. N.	

COURSE OF INSTRUCTION, 1929-30

[Reference books are marked*]

FIRST YEAR—FOURTH CLASS

FIRST TERM

Departments	Periods each week	Subjects	Textbooks
ENGINEERING AND AERONAUTICS.	2	Descriptive geometry and mechanical drawing.	Bartlett and Johnson's Engineering Descriptive Geometry and Drawing.
MATHEMATICS.....	6	Solid geometry..... Plane and spherical trigonometry and logarithms.	Hawkes—Luby—Touton. Bullard and Kiernan's Plane and Spherical Trigonometry. American Practical Navigator,* Bowditch.
ENGLISH.....	3	Composition and literature.	Alden and Earle's Makers of Naval Tradition. Alden's Writing and Speaking. Westcott, Lewis, and Weber's Four Centuries of Literature. Webster's Collegiate Dictionary.* Essentials of Spanish (Torres). Un Verano en España (Weems). Dictionary of the English and Spanish Languages.*
MODERN LANGUAGES..... (One half of the class studies Spanish and the other half French.)	3	Spanish.....	The New Fraser and Squair French Grammar. Le Tour du Monde (Green). Cestre Guibillon French Dictionary.* McPherson and Henderson's Elementary Study of Chemistry. McPherson and Henderson's Exercises in Chemistry. Pamphlet: Dashiell's Problems in Chemistry.
	3	French.....	
ELECTRICAL ENGINEERING AND PHYSICS.	2	Chemistry.....	

SECOND TERM

ENGINEERING AND AERONAUTICS.	2	Descriptive geometry and mechanical drawing.	Bartlett and Johnson's Engineering Descriptive Geometry and Drawing.
MATHEMATICS.....	6	College algebra..... Introduction to engineering mathematics. Elementary calculus.....	Palmer and Miser's College Algebra. R. K. Morley's Introduction to Engineering Mathematics. Woods and Bailey's Elementary Calculus. Mechanical Engineers' Handbook, by Marks.* American Practical Navigator,* Bowditch. Keuffel and Esser's Polyphase Slide Rule, with Instruction Pamphlet. Alden's Writing and Speaking. Westcott, Lewis, and Weber's Four Centuries of Literature. Shakespeare's Henry IV: Part I, Othello, and King Lear. Pattee's Century Readings in the American Short Story.
ENGLISH.....	3	Composition and literature.	Essentials of Spanish (Torres). Un Verano en España (Weems). The New Fraser and Squair French Grammar. Le Tour du Monde (Green). McPherson and Henderson's Elementary Study of Chemistry. McPherson and Henderson's Exercises in Chemistry. Pamphlet: Dashiell's Problems in Chemistry.
MODERN LANGUAGES..... (One half of the class studies Spanish and the other half French.)	3	Spanish.....	
	3	French.....	
ELECTRICAL ENGINEERING AND PHYSICS.	2	Chemistry.....	

SECOND YEAR—THIRD CLASS

FIRST TERM

Departments	Periods each week	Subjects	Textbooks
ENGINEERING AND AERONAUTICS.	3	{ Engineering drawing. Bureau of Engineering drawings.	{ Bartlett and Johnson's Engineering Descriptive Geometry and Drawing.
MATHEMATICS.-----	5	{ Calculus. Solid analytic geometry.	{ March and Wolff's Calculus. Mechanical Engineer's Handbook and Slide Rule.
ELECTRICAL ENGINEERING AND PHYSICS. ¹	4	Physics.-----	Spinney's Textbook of Physics. Department's Physics Manual. Department's Physics Laboratory Manual.
ENGLISH.-----	3	Naval history.-----	Stevens and Westcott's History of Sea Power. Clark, Stevens, Alden, and Krafft's Short History of the United States Navy (revised by Alden).
MODERN LANGUAGES.----- (One half of the class studies Spanish and the other half French.)	2	Spanish.-----	Essentials of Spanish (Torres). Temas Espanoles (Crawford). Gil Blas (Padre Isla).
	2	French.-----	Fournon and Broussard's Pour Parler Français. The New Fraser and Squair French Grammar. Gil Blas (LeSage).

SECOND TERM

ENGINEERING AND AERONAUTICS.	3	Mechanisms.----- Engineering materials and processes.	Baker and Farrell's Principles of the Basic Mechanisms. Ashe and Hale's Engineering Materials and Processes.
MATHEMATICS.-----	5	Mechanics.-----	Elementary Mechanics—Department of Mathematics, U. S. Naval Academy. Mechanical Engineers' Handbook and Slide Rule. Breckenridge's Polyphase Slide Rule Manual.*
ELECTRICAL ENGINEERING AND PHYSICS.	4	Physics.-----	Spinney's Textbook of Physics. Department's Physics Manual. Department's Physics Laboratory Manual.
ENGLISH.-----	3	Political and social history of the United States.	Dawes' Electrical Engineering, Vol. I. Westcott, Lewis, and Weber's Four Centuries of Literature. Schlesinger's Political and Social History of the United States. Atlantic Monthly (February to May).
MODERN LANGUAGES.----- (One half of the class studies Spanish and the other half French.)	2	Spanish.-----	Gil Blas (Padre Isla). Essentials of Spanish (Torres).
	2	French.-----	Gil Blas (LeSage). The New Fraser and Squair French Grammar.

¹ Third class has 8 drill periods in December and January, and a like number in February and March devoted to recitation.

THIRD YEAR—SECOND CLASS

FIRST TERM

Departments	Periods each week	Subjects	Textbooks
ENGINEERING AND AERONAUTICS.	4	Boilers..... Reciprocating engines and auxiliary machinery.	Department of Engineering and Aeronautics Marine and Naval Boilers, 1929. Bureau of Engineering Manual. Department of Engineering and Aeronautics Naval Reciprocating Engines. Department of Engineering and Aeronautics Naval Auxiliary Machinery, 1929.
MATHEMATICS.....	5	Spherical trigonometry... Differential equations...	Bullard and Kiernan's Plane and Spherical Trigonometry. Phillips. Mechanical Engineers' Handbook and Slide Rule.
ELECTRICAL ENGINEERING AND PHYSICS.	4	Magnetism and electricity (D. C.).	Dawes' Electrical Engineering, Vol. I. Department's Direct Current Laboratory Manual.
NAVIGATION.....	3	Navigation.....	Elements of Astronomy (Fath). Navigation (Dutton). Useful Tables, 1925. Nautical Almanac. Azimuth Tables.*

SECOND TERM

SEAMANSHIP AND FLIGHT TACTICS.	3	Seamanship..... Signals and communication procedure. Regulations..... Naval aviation..... Aviation history.....	Knight's Seamanship. Naval Terms and Definitions.* Boat Book, 1927. Bowditch, 1925. Signal Books, U. S. Navy.* Bureau of Navigation Study Course, Seaman Signalman 3c. U. S. Navy Regulations. Naval Aviation, 1929. Vol. I, U. S. Navy Aviation Ground School Manual.
ORDNANCE AND GUNNERY.....	3	Ordnance, gun construction, torpedoes, and mines. Aviation gunnery. Safety orders. Fire control.....	Naval Ordnance, 1925. Notes on Torpedoes, Mines, Fire Control, and Battle Efficiency, Part 2. Departmental Memoranda. Notes on Fire Control, Part I. U. S. Navy Regulations, 1920.
NAVIGATION.....	3	Navigation.....	Navigation (Dutton). Useful Tables, 1925. Nautical Almanac. Azimuth Tables.*
ENGINEERING AND AERONAUTICS.	3	Reciprocating engines and auxiliary machinery. Naval construction..... Aircraft construction....	Department of Engineering and Aeronautics Naval Auxiliary Machinery, 1929. Manning and Schumacher's Naval Architecture and Warship Construction. Aircraft Construction, 1923, Department of Engineering and Aeronautics.
ELECTRICAL ENGINEERING AND PHYSICS.	2	Electricity, (D. C. and A. C.). Dynamo electric machines, primary and secondary batteries, searchlights, telephones, etc.	Dawes' Electrical Engineering, Vol. I and Vol. II. Department's Direct Current Laboratory Manual.
MODERN LANGUAGES..... (One half of the class studies Spanish and the other half French.)	2	Spanish	Un Viaje a Sud América (McHale). Hills and Ford's First Spanish Course.
	2	French.....	La France Nouvelle (Talbot). The New Fraser and Squair French Grammar.

FOURTH YEAR—FIRST CLASS

FIRST TERM

Departments	Periods each week	Subjects	Textbooks
SEAMANSHIP AND FLIGHT TACTICS.	3	Seamanship..... Signals..... Military law..... International law..... Communications, (including aircraft communications and procedure).	Knight's Seamanship. Boat Book, 1927. Naval Terms and Definitions.* Signal Books, U. S. Navy. Naval Courts and Boards. International Law, Soule and McCauley. A Digest of Naval Communications (Lewis). Bureau of Navigation Study Courses, Radioman 3c.
ORDNANCE AND GUNNERY.....	3	Fire control..... Interior ballistics..... Exterior ballistics..... Naval ordnance.....	Naval Ordnance, 1925. Exterior Ballistics, 1926. Range and Ballistic Tables, 1926. Notes on Fire Control, Part I. Departmental Memoranda.
NAVIGATION.....	2	Navigation.....	Navigation (Dutton). Notes on Hydrographic Surveying (Refo). Useful Tables, 1925. Nautical Almanac. Azimuth Tables.*
ENGINEERING AND AERONAUTICS.	3	Thermodynamics..... Turbines.....	Ennis' Thermodynamics, Abridged. Cox and Libbey's Naval Turbines.
ELECTRICAL ENGINEERING AND PHYSICS.	3	Alternating currents and alternating current machinery.	Dawes' Electrical Engineering, Vol. II, and department's Electrical Manual. Department's Alternating Current Laboratory Manual.
ENGLISH.....		After-dinner speaking (Tuesday and Thursday evenings).	
MODERN LANGUAGES. (One half of the class studies Spanish, the other half French.)	2	Spanish.....	Spanish Nautical Phrase Book and Reader. Hills and Ford's First Spanish Course.
	2	French.....	French Nautical Phrase Book and Reader.
HYGIENE.....		Effects of alcohol and narcotics. Naval and military hygiene. First aid to the injured, (14 Friday evening periods).	Heiner's Physiology, First Aid, and Naval Hygiene.

SECOND TERM

SEAMANSHIP AND FLIGHT TACTICS.	3	Elementary strategy and tactics. Aviation History..... Aerology..... Regulations..... Mooring board.....	War College and department pamphlets. Vol. II, U. S. Navy Aviation Ground School Manual. Vol. I, U. S. Navy Aviation Ground School Manual. Do. U. S. Navy Regulations. Navigation (Dutton). Department notes.
ORDNANCE AND GUNNERY.....	3	Exterior ballistics..... Fire control..... Gunnery instructions..... Practical gunnery.....	Exterior Ballistics, 1926. Range and Ballistic Tables, 1926. Gunnery Instructions, U. S. N. Notes on Fire Control, Part I. Bureau of Ordnance pamphlets. Official publications. Departmental Memoranda.
NAVIGATION.....	2	Navigation.....	Navigation textbooks same as for first term, and H. O. 208 additional.
ENGINEERING AND AERONAUTICS.	3	Turbines..... Internal-combustion engines, and aviation engines.	Cox and Libbey's Naval Turbines. Internal-Combustion Engines (Lind).
ELECTRICAL ENGINEERING AND PHYSICS.	3	Radio.....	Department Radio Manual. Department's Radio Laboratory Manual.
ENGLISH.....	2	Modern European history, (with lectures). After-dinner speaking, (Tuesday and Thursday evenings).	Turner's Europe since 1789.

Assignment of time, 1929-30

Departments	First class		Second class		Third class		Fourth class		Summary
	First term	Second term	First term	Second term	First term	Second term	First term	Second term	
Seamanship and flight tactics.....	3	3	(1)	3					¹ 9-(10)
Ordnance and gunnery.....	3	3		3					9
Navigation.....	2	2	3	3					10
Engineering and aeronautics.....	3	3	4	3	3	3	2	2	23
Mathematics.....			5		5	5	6	6	27
Electrical engineering and physics.....	3	3	4	2	² 3	³ 3	2	2	² ³ 22-(23)
English.....		⁴ 2			3	3	3	3	14
Languages.....	2			2	2	2	3	3	14
Hygiene.....	(1)								(1)

¹ December and January, 1 period.³ February and March, 4 periods.² December and January, 4 periods.⁴ Friday night lecture.*Coefficients, 1929-30*

Departments	First class		Second class		Third class		Fourth class		Summary
	First term	Second term	First term	Second term	First term	Second term	First term	Second term	
Aptitude for the service.....	17		12		7		3		39
Seamanship and flight tactics.....	8	8		6					22
Ordnance and gunnery.....	8	8		6					22
Navigation.....	5	5	6	6					22
Engineering and aeronautics.....	7	7	8	6	4	4	1	2	39
Mathematics.....			9		7	7	4	4	31
Electrical engineering and physics.....	8	8	8	4	3	4	2	2	39
English.....		5			4	4	2	2	17
Languages.....	4			4	3	3	1	2	17
Hygiene.....	2								2
Total.....	100		75		50		25		250

Program of recitations, 1929-30—First term

Day	Class	Battalion	Periods				
			First: 7.50 to 9.54 a. m.	Second: 10.04 a. m. to 12.08 p. m.	Third: 1.10 to 3.14 p. m.	Fourth: 3.27 to 4.30 p. m.	Fifth: 7.45 to 9.30 p. m.
Monday	{	1	1, 3 Languages	E. and A.	Ordnance	Drill	Study.
		4, 2	do	do	S. and F. T.		
		2	1, 3 Mathematics	E. E. and P.	E. and A.		
		4, 2	E. E. and P.	Mathematics	do		
		3	1, 3 E. and A.	E. E. and P.	Mathematics		
Tuesday	{	4, 2	do	English	do	do	Do.
		4	1, 3 Mathematics	Languages	E. E. and P.		
		4, 2	English	Mathematics	Languages		
		1	1, 3 S. and F. T.	E. and A.	E. E. and P.		
		4, 2	Ordnance	do	do		
Wednesday	{	2	1, 3 E. E. and P.	Mathematics	E. and A.	Recreation	Do.
		4, 2	Mathematics	Navigation	do		
		3	1, 3 E. and A.	English	Mathematics		
		4, 2	do	Languages	do		
		4	1, 3 English	Mathematics	Languages		
Thursday	{	4, 2	Mathematics	E. E. and P.	English	Drill	Do.
		1	1, 3 Languages	Ordnance	Navigation		
		4, 2	Navigation	S. and F. T.	Languages		
		2	1, 3 Mathematics ¹	Navigation	E. and A. ¹		
		4, 2	E. E. and P.	Mathematics ¹	do ¹		
Friday	{	3	1, 3 English	Languages	Mathematics	do	Hygiene.
		4, 2	E. E. and P.	English	do		
		1	1, 3 Mathematics	E. E. and P.	English		
		4, 2	E. and A.	Mathematics	E. E. and P.		
		1	1, 3 S. and F. T.	E. and A.	Ordnance		
Saturday	{	4, 2	Ordnance	do	S. and F. T.	do	Do.
		2	1, 3 E. E. and P. ²	Mathematics	Navigation ²		
		4, 2	Mathematics	Navigation	E. E. and P.		
		3	1, 3 E. E. and P.	English	Mathematics		
		4, 2	English	E. E. and P.	do		
Sunday	{	4	1, 3 E. and A. ³	Mathematics	Languages ³	do	Study.
		4, 2	Mathematics	Languages	E. and A.		
		1	1, 3 Navigation	S. and F. T.	E. E. and P.		
		4, 2	do	Ordnance	do		
		2	1, 3 E. E. and P.	Mathematics	Navigation		
Monday	{	4, 2	Mathematics	E. E. and P.	do	do	Do.
		3	1, 3 E. E. and P.	E. and A.	Mathematics		
		4, 2	E. and A.	E. E. and P.	do		
		1	1, 3 English	Mathematics	E. and A.		
		4, 2	Mathematics	English	Languages		

SATURDAY TIME SCHEDULE

		Battalion	7.50 to 9.54 a. m.	10.20 to 11.50 a. m.			
Saturday	{	1	1, 3 E. E. and P.	do	Recreation	Recreation	{Liberty— motion pictures, etc.
		4, 2	do	do			
		2	1, 3 E. and A.	S. and F. T. ⁴			
		4, 2	do	do ⁴			
		3	1, 3 Languages	E. E. and P. ⁴			
Sunday	{	4, 2	do	do ⁴	do	do	Do.
		4	1, 3 Mathematics	do			
		4, 2	do	do			
		1	1, 3 English	Mathematics			
		4, 2	Mathematics	English			

¹ When second class has mathematics examination in third period Wednesday, first and third battalions recite engineering and aeronautics during first period, and second and fourth battalions recite engineering and aeronautics during second period.

² When second class has electrical engineering and physics examination in third period Thursdays, first and third battalions recite navigation during first period.

³ When fourth class has engineering and aeronautics examination in third period Thursdays, first and third battalions recite languages during first period.

⁴ December and January, 10.04 a. m. to 12.08 p. m.

Program of recitations, 1929-30—Second term

Day	Class	Battalion	Periods				
			First: 7.50 to 9.54 a. m.	Second: 10 a. m. to 12.08 p. m.	Third: 1.10 to 3.14 p. m.	Fourth: 3.27 to 4. 30 p. m.	Fifth: 7.45 to 9.30 p. m.
Monday-----	1	1, 3...	E. E. and P.	Ordinance	English	Drill-----	Study.
		4, 2...	do	S. and F. T.	do		
		2	1, 3...	Ordinance	E. E. and P.		
		4, 2...	S. and F. T.	Languages	Ordinance		
Tuesday-----	1	1, 3...	E. E. and P.	E. E. and P.	Languages	do-----	Do.
		4, 2...	do	English	do		
		2	1, 3...	Mathematics	E. E. and P.		
		4, 2...	English	Mathematics	Languages		
Wednesday---	1	1, 3...	Navigation	S. and F. T.	E. E. and P.	Recreation--	Do.
		4, 2...	do	Ordinance	do		
		2	1, 3...	Languages	E. E. and P.		
		4, 2...	E. E. and P.	do	Navigation		
Thursday-----	1	1, 3...	E. E. and P.	English	Mathematics	Drill-----	Do.
		4, 2...	do	Languages	do		
		2	1, 3...	English	Mathematics		
		4, 2...	Mathematics	E. E. and P.	English		
Friday-----	1	1, 3...	Languages	Mathematics	E. E. and P.	do-----	Study.
		4, 2...	do	English	do		
		2	1, 3...	Ordinance	S. and F. T.		
		4, 2...	S. and F. T.	do	Ordinance		

SATURDAY TIME SCHEDULE

			7.50 to 9.54 a. m.	10.20 to 11.50 a. m.			
Saturday-----	1	1, 3...	English		Recreation---	Recreation--	Liberty— motion pictures, etc.
		4, 2...	do				
		2	1, 3...	E. E. and A.			
		4, 2...	do				
	3	1, 3...	Languages	E. E. and P. ²			
		4, 2...	do	do. ²			
		2	1, 3...	Mathematics			
		4, 2...	do				

¹ When fourth class has engineering and aeronautics examination in third period Thursdays, second and fourth battalions recite languages first period.

² February and March, 10.04 a. m. to 12.08 p. m.

Table of recitation assignments, 1929-30—First term

Departments	Battalions	First class					Second class				Third class				Fourth class				Recitations per week				
		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	First class	Second class	Third class	Fourth class
Seamanship and flight tactics	1, 3 2, 4	1 3	1 3	2 3	2 3	2 3							12 12							3	1		
Ordnance	1, 3 2, 4	3 1	2 1	3 1	3 1	3 1														3			
Navigation	1, 3 2, 4	3 1	3 1	3 1	3 1	3 1														2	3		
Engineering and aeronautics	1, 3 2, 4	2 2	2 2	2 2	2 2	3 3	3 3	3 3	3 3	3 3	3 3	3 3	1 1	1 1	1 1	1 1	3 3			3	4	3	2
Mathematics	1, 3 2, 4	3 1	3 1	3 1	3 1	2 2	2 2	2 2	2 2	3 3	3 3	3 3	2 2	2 2	1 1	2 2	2 2	1 1			5	5	6
Electrical engineering and physics	1, 3 2, 4	3 1	3 1	3 1	3 1	2 2	2 2	1 1	1 1	2 2	2 2	2 2	1 1	1 1	1 1	2 2	3 3			3	4	3	2
English	1, 3 2, 4	3 1	3 1	3 1	3 1	3 1				2 2	2 2	2 2	2 2	1 1	1 1	3 3	1 1					3	3
Languages	1, 3 2, 4	1 1	1 1	3 3						2 2	2 2	2 2	1 1	3 3	2 2	3 3	3 3	2 2		2		2	3
Hygiene	1, 3 2, 4	3 1	3 1	3 1	5 5														1				

¹ December and January.

Table of recitation assignments, 1929-30—Second term

Departments	Battalions	First class					Second class				Third class				Fourth class				Recitations per week										
		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	First class	Second class	Third class	Fourth class
Seamanship and flight tactics	1, 3 2, 4	2 2	3 3	1 1	2 2	3 3	3 3	2 2	3 3	2 2	3 3	2 2	3 3													3	3		
Ordnance	1, 3 2, 4	2 2	3 3	1 1	2 2	3 3	3 3	2 2	3 3	2 2	3 3	2 2	3 3													3	3		
Navigation	1, 3 2, 4	1 1	3 3	2 2	3 3	3 3	3 3	2 2	3 3	2 2	3 3	2 2	3 3													2	3		
Engineering and aeronautics	1, 3 2, 4	3 3	3 3	2 2	3 3	3 3	3 3	2 2	3 3	2 2	3 3	2 2	3 3	1 1	2 2	1 1	3 3	2 2								3	3	3	2
Mathematics	1, 3 2, 4	3 1	3 1	3 1	3 1	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	3 3	3 3	3 3	3 3	3 3										5	6
Electrical engineering and physics	1, 3 2, 4	1 1	3 3	3 3	2 2	3 3	2 2	3 3	2 2	3 3	2 2	3 3	2 2	2 2	2 2	2 2	2 2	2 2								3	2	3	2
English	1, 3 2, 4	3 3	3 3	3 3	3 3	3 3	1 1	3 3	2 2	3 3	2 2	3 3	2 2	2 2	2 2	2 2	2 2	2 2								2		3	3
Languages	1, 3 2, 4	3 1	3 1	3 1	3 1	2 2	3 3	2 2	3 3	2 2	3 3	2 2	3 3	1 1	2 2	1 1	3 3	2 2									2	2	3

¹ February and March.

Schedule of Friday night, fifth period, lectures for first class, 1929-30

Oct. 4	Executive.	Jan. 10	Hygiene	Apr. 4	Superintendent (or executive).
Oct. 11	Hygiene.	Jan. 17	Hygiene examination.	Apr. 11	English.
Oct. 25	Do.	Jan. 31	Executive.	Apr. 18	Do.
Nov. 1	Do.	Feb. 7	English.	Apr. 25	Do.
Nov. 8	Do.	Feb. 14	Executive.	May 2	Executive.
Nov. 22	Hygiene examination.	Feb. 28	English.	May 9	English.
Nov. 29	Executive.	Mar. 7	Do.	May 23	Do.
Dec. 6	Hygiene.	Mar. 14	Do.		
Dec. 20	Do.	Mar. 21	Do.		
Jan. 3	Do.	Mar. 28	Do.		

ARRANGEMENT OF COURSES

1929-30

All courses are completed each term

Midshipmen are required to have a 2.5 or over in each department
for each term



RÉSUMÉ OF COURSE OF INSTRUCTION

EXECUTIVE

The executive department, under the direction of the commandant of midshipmen, has for its mission—

Development of the highest standards of uprightness, truth, honor, loyalty, and patriotism.

Development of officerlike character, including the qualities of initiative, force, leadership, attention to duty, military bearing, cleanliness of mind and person, neatness of dress, and aptitude for the service.

Enforcement of the regulations for interior discipline.

General direction of all drills, including infantry tactics, extended order, and physical drill under arms.

Supervision of all midshipmen entertainments and extracurricular activities.

Service to the regiment of midshipmen by the midshipmen's commissary, midshipmen's store, tailor shop, laundry, barber shop, and cobbler.

Administration of Bancroft Hall, where the regiment of midshipmen is quartered and messed.

Supervision of the Naval Academy Band, police, fire-fighting organization, arm and dairy, and commissary store.

Summary of practical instruction periods, 1929-30

Numbers preceding dash indicate number of week days; numbers following dash indicate number of Saturdays]

Department	First battalion				Second battalion			
	First class	Second class	Third class	Fourth class	First class	Second class	Third class	Fourth class
Executive.....	47-9	47- 7	39- 7	39-7	47-9	47- 7	39- 7	39-7
Ordnance and gunnery.....	25-7	21- 3	19- 3	8-2	24-6	20- 3	18- 3	8-2
Seamanship and flight tactics.....	19-3	18-10	24- 3	31-7	20-4	19-10	25- 3	32-7
Engineering and aeronautics.....	11-4	25- 4	37- 0	16-2	14-2	25- 5	37- 0	16-4
Electrical engineering and physics.....	17-4	3- 1	0-14	0-0	14-5	3- 1	0-14	0-0
Navigation.....	4-0	2- 1	0- 0	0-0	4-1	2- 1	0- 0	0-0
Gymnasium.....	9-0	16- 1	13- 0	30-7	9-0	16- 0	13- 0	29-6
Dancing.....	0-0	0- 0	0- 0	8-2	0-0	0- 0	0- 0	8-1

Department	Third battalion				Fourth battalion			
	First class	Second class	Third class	Fourth class	First class	Second class	Third class	Fourth class
Executive.....	47-9	46- 7	39- 7	39-7	47-9	45- 8	39- 7	39-7
Ordnance and gunnery.....	22-7	20- 4	18- 3	7-2	26-4	23- 3	19- 3	8-1
Seamanship and flight tactics.....	20-4	19-10	24- 3	30-7	17-4	18-10	26- 3	31-5
Engineering and aeronautics.....	13-4	24- 3	38- 0	16-4	13-4	23- 4	35- 0	14-4
Electrical engineering and physics.....	17-3	3- 1	0-14	0-0	16-5	3- 1	0-14	0-0
Navigation.....	4-0	2- 1	0- 0	0-0	4-1	4- 0	0- 0	0-0
Gymnasium.....	9-0	18- 1	13- 0	32-5	9-0	16- 1	13- 0	32-8
Dancing.....	0-0	0- 0	0- 0	8-2	0-0	0- 0	0- 0	8-2

NOTE.—In accord with action of the academic board the second class will have recitations in seamanship during the second period on Saturdays during the academic months of December and January and the third class will have recitations in electrical engineering and physics during the second period on Saturdays during the academic months of December, January, February, and March.

SEAMANSHIP AND FLIGHT TACTICS

The department of seamanship and flight tactics has for its mission the instruction of midshipmen to the end that upon graduation they may be capable of efficiently performing the duties of a junior officer afloat, as junior officer of the watch, junior deck division officer, junior forecandle officer, boat officer, assistant communication officer, and recorder of a summary court-martial. Midshipmen receive instruction giving them an elementary knowledge of flight tactics, aviation history, and aerology.

Seamanship drills commence with the day of the fourth classman's entrance into the academy, continue throughout the entire course, and are supplemented by practical instruction on the practice cruises. Commencing with learning how to pull a service cutter, the drills progress through handling service-type and civilian-type boats under oars, sail, and power; signals—semaphore, Morse visual code, and flag hoist; ground tackle work; knotting and splicing; compass, log, and lead; tactics and evolutions; communications.

In general, members of the fourth class take the ordinary crew duties, and have qualifications similar to seaman; third class, as important crew members, with qualifications as petty officer; second class, as second in command, with qualifications as chief petty officer; and first class, in command, with qualifications as junior officer.

Recitations are held in seamanship second term of third year, and throughout both terms of the fourth year. The instruction covers signals, seamanship in general, nautical phraseology, communications, regulations, military law, elementary strategy and tactics, international law, leadership, mooring and maneuvering board, and aviation subjects connected with flight tactics, such as "Aviation History," "Aerology," "Aircraft Communications," and "Aviation Scouting."

For first class, additional instruction in tactics and in seamanship evolutions is carried on in submarine chasers, all of the duties of the deck force being taken over by the midshipmen, under the supervision of experienced officer instructors.

ORDNANCE AND GUNNERY

The course includes all the theoretical and practical instruction required for the performance of gunnery duties aboard ship as a junior officer and in addition gives a thorough basic foundation for future study and development work in ordnance and gunnery. It is divided into two parts—section room and practical instruction. The section-room instruction covers subjects which must be studied and can best be learned as a midshipman; the practical instruction and drill includes work with all types of naval ordnance from small arms to turret guns and methods for control of all weapons. Drills which can be best given aboard ship and preparations for target practice are held during the practice cruise and not at the Naval Academy.

The practical work begins the summer of the fourth class year and includes firing on the rifle range with rifle and pistol up to the experts' course, drill with broadside guns, and explanation of all ordnance equipment and models in Dahlgren Hall. During the fourth, third, and second class years this practical instruction is continued with small arms, machine guns, broadside battery, models and training in the duties of all personnel connected with ordnance. Second class also has instruction in torpedoes and fire control. First class year is devoted to fire control and methods of using broadside and turret guns, torpedoes, aviation ordnance, aviation bombing, and grenades. On the first class practice cruise midshipmen, first class, perform the duties of officers in gunnery exercises with the fleet.

Instruction in the section room begins the second term, second class year, with a study of naval ordnance, gun construction, aviation gunnery, and tor-

pedoes. In first class year a study is made of gun construction, powder pressures, velocities and trajectories of projectiles, ranges and errors of naval guns, fire control of all types of guns, gunnery methods, including aviation gunnery, and the duties of a junior officer in the gunnery department aboard ship.

Textbooks and service publications are used which have been specially written by experienced officers of the United States Navy for instructional purposes of midshipmen and junior officers. Besides the study of these, a series of lectures on practical ordnance and gunnery is given by officers from the Navy Department or the fleet.

Throughout the course great stress is laid not only upon the duties of a junior officer in gunnery, but the relation of each subject to the development of ordnance and gunnery in the United States Navy, the present gunnery methods of the fleet, and the possible future requirements which must be met by naval officers who are graduates of the Naval Academy.

NAVIGATION

Character of work	DIVISION OF TIME	Time (per cent)
Recitations.....		31
Practical problems (written recitations).....		40
Examinations.....		14
Practical instruction (charts and instruments).....		11
Drills.....		4
		<hr/> 100

SECOND CLASS YEAR—FIRST TERM

Object.—Basic instruction in the elements of astronomy and in geonavigation.

The work of this term is started with a study of astronomy so that the midshipman may have a good basic knowledge of the elements with which he is dealing. This also clarifies his ideas in the study of spherical trigonometry which course is given at this point in the department of mathematics. Geonavigation is taken up following astronomy, and the midshipman is taught the operation and use of the magnetic compass and the use of charts for finding his position near land. He is also taught the methods of working up his courses and positions at sea by the method of dead reckoning. The study of time completes the term's work.

Practical instruction at the astronomical model, in piloting, and in the use of charts and instruments, including the compensation of the magnetic compass, is coordinated with the work noted above.

SECOND CLASS YEAR—SECOND TERM

Object.—To consolidate the work of the first term so as to give the midshipman a logical and comprehensive idea of the navigator's daily work in conducting the ship from place to place and checking her position.

The result desired is to so prepare the midshipman that he will be able to get the most practical value out of his first class cruise, where he will have an opportunity to take observations and actually locate the ship on the chart.

The practical instruction in chart and compass work is continued with the idea of making the midshipman thoroughly familiar with the proper methods of piloting.

The drills are designed to give a thorough working knowledge of the care, operation, and handling of the sextant.

FIRST CLASS CRUISE

Object.—The practical application on board ship of the instruction given during second class year.

The midshipman is required to take sights, work them out, and locate the ship, both by means of these sights and by dead reckoning. Piloting is taught under circumstances which enable the midshipman to see clearly how the ship is handled. The actual compensation of a ship's compass is carried out when possible and the midshipman required to assist so that the practical difficulties encountered may be clearly seen and appreciated. The value of the gyro-compass is demonstrated and instruction given in its use.

FIRST CLASS YEAR—FIRST AND SECOND TERMS

Object.—This mission of this department, carrying out the broader mission of the Naval Academy, is to teach navigation in such a manner as to insure the mastery of fundamental principles and to provide that at graduation midshipmen are prepared to perform navigational duties on board ship in accordance with standard service practice.

A fictitious circumnavigating world cruise is conducted to give the midshipmen all possible variations of the problem of position. In addition, the following subjects are taught in the section room, at drills, and by practical instruction in the chart room:

- (a) The duties of the navigator in accordance with Navy regulations.
- (b) Aerial navigation.
- (c) The value and use of radio bearings.
- (d) The use and relative value of various methods for the solution of the astronomical triangle.
- (e) Hydrographic surveying.

ENGINEERING AND AERONAUTICS

FOURTH CLASS YEAR—SUMMER AND FIRST TERMS

Descriptive geometry and mechanical drawing.—Instruction in use of drawing instruments and development of manual dexterity in employment. Standard methods of lettering and practice in their use. Application of the foregoing to descriptive geometry, with the representation of lines, planes, curved surfaces, and intersections, in order to develop the ability to visualize objects in space.

FOURTH CLASS YEAR—SECOND TERM; THIRD CLASS YEAR—FIRST TERM

Engineering drawing.—Making of free-hand working sketches of small machine parts, with full dimensional data taken from work, and the making of standard working drawings from such sketches. Understanding of standardized parts and use of tables of standards in design. The making of detailed drawings from assembled drawings and vice versa, particular emphasis being laid upon the ability to read blue prints correctly and to appreciate good points in the design of a machine.

THIRD CLASS YEAR—SECOND TERM

Mechanisms.—A study of the underlying principles governing the relative motions of parts of machinery, including revolving and oscillating bodies; belt, rope, and chains; motion by pure rolling contact; gears and gear teeth; wheels in train; inclined plane, wedge, screw, worm and wheel; cams; relative velocities of rigidly connected points; linkwork; straight-line mechanisms; parallel motions; aggregate combinations; pulley blocks; intermittent motion.

Engineering materials and processes.—A study of engineering and construction materials; their properties and uses, and the essential steps in producing them from ore to the finished product. Methods of shaping metals for use and a study of the essential features of metallography, particularly with reference to steel.

SECOND CLASS YEAR—FIRST TERM

Boilers.—A study of different fundamental types of marine boilers, including principles of water and gas circulation; combustion and fuels; boiler accessories, fittings, and measuring instruments; general principles connected with operation and maintenance.

SECOND CLASS YEAR—FIRST AND SECOND TERMS

Naval reciprocating engines and auxiliary machinery.—General principles and thermodynamics as applied to this type of machinery; study of mechanical parts and materials used; measurement of power; fundamentals of construction and operation of condensers, pumps, valves, heaters, tanks, lubrication systems, and complete installations.

SECOND CLASS YEAR—SECOND TERM

Naval construction.—General study of ship's lines and definitions pertaining thereto; various steps in planning a ship; calculations of areas and volumes; general principles of stability, both static and dynamic; displacement and trim, with curves in relation thereto; effects of weight distribution and of weight shifting; resistance of ships; coefficients of speed, law of corresponding speeds; ship nomenclature; details of construction of naval vessels; launching and docking; general arrangement of ship compartments and methods of flooding, draining, and ventilating; details of steering gear; care and preservation of hulls.

Aircraft construction.—General study of heavier-than-air aircraft; nomenclature and definitions; aerodynamics in relation to stability and control; aerofoils, powering, external loading, and design; details of construction, erection, care, and preservation; naval service types.

FIRST CLASS YEAR—FIRST TERM

Thermodynamics.—The utilization of heat as energy to perform mechanical work in various types of machinery, such as turbines, internal-combustion engines, refrigerating machinery, etc., including a study of the use of steam tables and diagrams.

FIRST CLASS YEAR—FIRST AND SECOND TERMS

Steam turbines.—Underlying principles of turbines, their classification into types, and the characteristics of each type; necessary turbine auxiliaries; study of various types of turbines used in the Navy; general principles of operation and care of marine turbine installations.

FIRST CLASS YEAR—SECOND TERM

Internal-combustion engines.—Underlying principles of internal-combustion engines. Study of Otto and Diesel cycles, and their application to existing types of engines. Fuels and lubricants. Study of marine types of gasoline and oil engines, and of aircraft engines, including mechanical parts, carburetion, lubrication, cooling, and ignition systems. General principles of operation.

PRACTICAL WORK

FOURTH CLASS YEAR—SUMMER

Pattern shop.--Elementary work of the carpenter shop, mortising, joining woodworking lathes, etc.

Machine shop.--Chipping and filing of conventional pieces of iron and brass and instruction to use of power tools.

Sketching.--Sketching and dimensioning of simple geometrical shapes.

Coppersmith shop, forge shop, foundry.--Elementary instruction in work done in these shops.

Miscellaneous.--Examination of models and talks on boilers, reciprocating engines, turbines, internal-combustion engines, fireroom and engine-room auxiliaries, evaporators, etc.; ship construction, docking, steering engines, anchor engines, etc.

FOURTH CLASS YEAR—WINTER DRILLS

Pattern shop.--Selection and treatment of different kinds of woods for various purposes; continuation of summer work of the carpenter shop to finished pattern work.

Machine shop.--Vise bench work, principally fitting of bearings.

Miscellaneous.--Continuation of summer exercises, in greater detail.

THIRD CLASS YEAR—PRACTICE CRUISE

Tour of inspection of engine and boiler compartments and auxiliary stations; study and sketching, (where applicable), of the general arrangement of machinery, accessories and fittings, corrosion, cleaning and painting, care of compartments, blue-print reading, shops, tools, materials, and repair work. Stand watches of firemen.

THIRD CLASS YEAR—WINTER DRILLS

Foundry.--Kinds of sand and implements used; making of molds; melting and pouring of iron and brass.

Forge shop.--Equipment and tools used; forging, welding, tempering, case-hardening, etc.; bending and quenching tests of metals, etc.

Boiler shop.--Riveting, soft and hard patching, calking, cutting out tubes, expanding tubes, brickwork, etc.

Coppersmith shop.--Soldering, hard and soft; making copper pipe; putting flanges on pipe; use of oil furnace and oil heater; sweating patch on a copper pipe.

Machine shop.--Machine-tool work from working drawings, including the setting of work. Machine tools used are lathes, planers, vertical and horizontal boring mills, simple and radial presses, shapers, milling machines, slotters, etc.

Fuel-oil-burning boiler.--Lighting fires and raising steam from a cold boiler; handling boiler under forced draft; control of fires for smokeless or smoke conditions; study of various types of burners; safety precautions to be observed in the handling and burning of fuel oil.

Miscellaneous.--Use of various measuring instruments; gage calibration; acetylene cutting and welding; electric welding; thermit welding; strength of metals; sketching of engineering parts.

SECOND CLASS YEAR—SUMMER COURSE AT NAVAL ACADEMY

Operation, maintenance, and tests of coal and oil fired boilers; reciprocating and turbine engines; evaporating plants, reciprocating and rotary pumps, refrigerating plants, and condensing plants.

Disassembly, overhaul, assembly and adjustment of reciprocating engines, pumps, gauges, and valves. Machine-shop practice and tests.

Fundamentals of ground school aviation, aviation engine overhaul, operation of aviation engines in laboratory and in test stands, structure and rigging of aircraft.

Lectures and motion-picture instruction in engineering and aviation subjects, fundamentals, design, and prospective developments.

SECOND CLASS YEAR—WINTER DRILLS

Steering and anchor engines; propeller measurements; coal and fuel oil testing flue-gas analysis and water testing. Inspection of various ships' models showing details of warship construction; also docking, inclining experiments, stability and buoyancy, damage control, gas warfare defense. Aircraft construction and wind-tunnel tests. Illustrated lectures on engineering, naval architecture, and aviation.

FIRST CLASS YEAR—PRACTICE CRUISE

Administration of the engineer department; study and operation of main engines and auxiliaries, power boat and aircraft engines; emergencies; repairs; stand watches of junior officer, machinist, and chief petty officer.

FIRST CLASS YEAR—WINTER DRILLS

Operation of steam turbines and internal-combustion engines; determination, by dynamometer, of horsepower developed; torsion meter; detailed inspection of marine turbines, reduction gear, and condensing plant; detailed inspection of carburetors and magnetos and the adjustment of them; detailed inspection and operation of various types of marine and aircraft gas engines; visits to experiment station; log-room administration; pump calibration.

MATHEMATICS

FIRST YEAR—FIRST TERM

Solid geometry.—The geometry of lines and planes in space, polyhedrons, cylinders, cones, spheres; development and use of formulas for surfaces and volumes; demonstrations of propositions; solution of problems by construction and computation.

Logarithms.—Definitions and properties; practical use in computation; tables of logarithms of numbers, of logarithms of trigonometric functions, and tables of natural functions; haversine tables; special system of forms for computation.

Plane trigonometry.—Measurement of arcs and angles; trigonometric functions; development and use of fundamental trigonometric relations and identities; solution of trigonometric equations; solution of all cases of plane triangles, including development of formulas and methods for same; simple applications to measuring heights and distances.

Spherical trigonometry.—Solution of all cases of spherical triangles, including development of formulae; numerical solution of great circle courses and distances and of various cases of the astronomical triangle—time sight, meridian altitude, etc.

FIRST YEAR—SECOND TERM

Algebra.—Short review of important parts of elementary algebra; quadratics and advanced algebra, including inequalities, mathematical induction, binomial theorem, variation, progressions, complex numbers, theory of equations, partial fractions, permutations, combinations, probability, determinants.

Introduction to engineering mathematics.—A problem course based on previously acquired knowledge of algebra, geometry, and trigonometry. Stress is laid on

precision in calculation, so that the indicated accuracy of the results will be consistent with the exactness of the data.

Calculus.—The fundamental concepts of calculus, with numerous practical applications.

SECOND YEAR—FIRST TERM

Calculus.—Constants, variables, and functions; derivatives of algebraic functions, applications of derivatives; differential notation; differentiation of transcendental functions; integrations; applications of integrals; successive differentiation and integration; curves and curve tracing; definite integrals; application of integration to geometry and mechanics; special methods of integration; functions of two or more variables; multiple integrals; infinite series.

Solid analytic geometry.—Taken concurrently with calculus, using the same textbook. Equations of the plane, of the straight line in space, and of special surfaces of the second order.

SECOND YEAR—SECOND TERM

Mechanics.—Theory and use of slide rule; vectors; statics of a particle; forces acting on a rigid body; statics of a rigid body; centers of gravity and moments of inertia; deformable bodies, beams; rectilinear motion; work and energy; curvilinear motion; dynamics of a rigid body; brief treatment of hydromechanics.

THIRD YEAR—FIRST TERM

Spherical trigonometry.—Solution of all cases of spherical triangles, including development of formulæ; numerical solution of great circle courses and distances and of various cases of the astronomical triangle—time sight, meridian altitude, etc.

Differential equations.—Thorough drill in the setting up and solution of geometrical and physical problems involving important types of ordinary differential equations.

ELECTRICAL ENGINEERING AND PHYSICS

The course of instruction given by this department includes chemistry, physics, direct-current electricity, alternating-current electricity, and radio. The time available for each of these subjects is comparatively short, and the courses are, therefore, more or less elementary, special emphasis being placed on fundamental principles. The following is an outline of the subjects studied by each class:

FOURTH CLASS—FIRST AND SECOND TERMS

The year is devoted to the study of general inorganic chemistry with laboratory work. In addition, lectures are given on the application of chemistry to devices and appliances in the service, water testing, gas analysis, explosives, chemical warfare, service paints, and qualitative analysis.

Practical work in the chemical laboratory supplements the classroom instruction. Experiments are performed illustrating the preparation and properties of various gases and other substances, and include elementary qualitative analysis.

THIRD CLASS—FIRST AND SECOND TERMS

The subject of physics is taken up during the whole of the third class year and includes the study of mechanics, heat, sound, light, magnetism, and elementary electricity, and the application of the various laws and phenomena in these branches of the subject with special stress on problems. The course forms the

groundwork for more advanced studies in other subjects, and includes the flight of projectiles, balloons, gyroscopes, elements of thermodynamics, submarine listening devices, theory of flight, and optical instruments.

Practical work in the physics laboratory comprises experiments illustrating various physical laws and phenomena studied in the classroom. A number of lectures are given during the year.

SECOND CLASS—FIRST AND SECOND TERMS

The whole of second class year is devoted to the study of magnetism, electrostatics, direct-current and alternating-current electricity. During the first term, the fundamentals of simple electric circuits are studied with applications of Ohm's and Kirchoff's laws, while the second term is devoted principally to the theory and operation of dynamo-electric machines and alternating currents.

The laboratory work covers the following: Magnetic fields, induced currents, measurement of resistance, divided circuits, fall of potential, use and calibration of different measuring instruments supplied to ships, setting up and operation of primary and secondary batteries, operation and measuring efficiencies of dynamos and motors, devices for motor control, manipulation of switchboard, operation of electrical machinery supplied to naval vessels, measuring insulation resistance of electric plants, etc. There are also experiments for studying the characteristics of inductance and capacity.

A series of lectures is given to elucidate difficult points, to illustrate in a general way the practice in the electrical department aboard naval vessels, and as a review of the text already covered.

FIRST CLASS—FIRST AND SECOND TERM

The first class takes up the subject of alternating-current electricity, including radio, about half of the time available being devoted to the study of radio. The course in alternating-current electricity is considered to be of great importance due to the application of alternating-current machinery on board ship, principally in connection with the electric drive. This course starts with the theory of alternating-current generators and simple alternating-current circuits, including problems on series, parallel, and series-parallel circuits, and advances into the study of synchronous motors, transformers, polyphase currents, and induction motors with the application of the latter to the electric drive.

The radio course covers the underlying principles of radio communication. The time allotted to radio is devoted to the study of the fundamental principles governing the operation of spark, arc, and vacuum-tube equipment according to their relative importance.

The above radio course covers the following: Wave motion; resistance, inductance, capacity, and resonance, as applied to radio circuits; the simple oscillating circuit; use of the frequency meter; damped and continuous wave transmission; radiation of waves; receiving apparatus; uses of the vacuum tube as a detector, amplifier, modulator, and oscillator; regeneration; multiple stage amplification; radiotelephony; antennas; interference and selectivity; and naval radio apparatus.

Laboratory work and lectures form an important part of the course. The electrical laboratory work comprises an elementary study of inductance and capacity in alternating-current circuits, alternating-current dynamos, motors, and transformers. In the radio laboratories the instruction comprises experiments with simple oscillating circuits, use of frequency meters, spark sets, arc sets, use of vacuum tube as a detector, amplifier, generator, and modulator, and aviation radio practice.

ENGLISH

This department includes in its field subjects commonly assigned to both English and history. The entering class, at the very beginning, have their attention directed to the importance of naval tradition; in the Naval Academy library and yard they are made to feel the significance of the great names of the service, which many of them meet for the first time. During the academic year courses are given in composition and literature, naval history, political and social history of the United States, and modern European history.

In composition, emphasis is put upon (1) the paragraph as the constructive unit; (2) the letter, social and official; (3) the article, both technical and popular; and (4) after-dinner speaking, a form of oral composition which no officer can be inexperienced in without loss of dignity and usefulness. In literature, a survey is made of the entire field from the latter part of the sixteenth century to the present day, especial emphasis being given to Shakespeare, the modern essay, and the short story.

In naval history attention is directed to sea power and its relation to (1) development of ships and armament; (2) lives and characters of great leaders, (particular stress being placed on the growth of American naval tradition); and (3) effect on contemporary and subsequent history. A study is made of the great naval engagements from Salamis to Jutland. In the political and social history of the United States the period covered is from 1829 to the present time. The textbook on this subject is supplemented by readings in American literature selected to bring out the development of American thought and culture and also to suggest recent achievements in the field of letters. In modern European history the course is based on a comprehensive textbook, supplemented by lectures by historians of national reputation and also by men of affairs who are authorities on the countries studied. The aim is not only to vitalize the study of history but to give the midshipman such a knowledge of international problems as will fit him to be an intelligent representative of America in every country he may visit.

At the beginning of each course in English or history the effort is made to secure the interest and cooperation of the midshipman by making clear to him just how and why the proposed course will be of practical benefit to him in his career as a naval officer.

MODERN LANGUAGES

1. The mission of the department of modern languages is to give to midshipmen a sufficient knowledge of French or Spanish to help or enable them to converse in the foreign tongue, to express themselves clearly in written communications, and to read with sufficient ease French or Spanish of average difficulty. Throughout the course emphasis is laid on the knowledge of fundamental elementary principles to the end that, however late in his career he may be called upon to utilize his knowledge, the officer will have a solid foundation on which to build.

2. On admission to the Naval Academy approximately one half of the midshipmen are assigned to study French while the other half are assigned to study Spanish. This assignment depends on the preference of the individual midshipman and is permanent for the entire course.

3. The textbooks in use are modern and practical. Since the number of midshipmen in a section does not exceed 15, special attention is given to the individual.

4. The course in modern languages covers three academic years and consists of approximately 200 recitations.

HYGIENE

Soon after entrance midshipmen of the fourth class are given a course in personal hygiene and the care of the human machine. This includes a series of lectures to the class as a whole and instructions of a more detailed character over a period of several months to small groups of the class. The purpose of this course is to prepare the members of the entering class to make their fullest personal contribution to the continuance of their health, (individually and collectively), and thus to their best scholastic possibilities. In other words, it is to ground them in the art of keeping themselves in good health—to acquaint them with those precautions which every man can take in his own behalf to prevent disease or minimize its effects and thus maintain himself at all times in the best possible physical condition and mentally alert. The course comprises the following subjects:

- (a) Physical education; i. e., care of the human machine.
- (b) Personal hygiene, including social-hygiene education.
- (c) Physical training, the benefits of muscular activity, and the dangers of overtraining.
- (d) Preventable diseases and simple rules for maintaining health.
- (e) Oral prophylaxis and the care of the teeth.

A competent representative of the medical department is always present at all official contests and authorized sports. For graduation a midshipman is required to show, by standard strength and gymnasium tests, that he is 100 per cent physically efficient.

The first class during the first term is given a course in general hygiene, physiology, and first aid, using the adopted textbook by Capt. R. G. Heiner, Medical Corps, United States Navy. An outline of the course is as follows:

- I. Minute anatomy and cell physiology.
- II. Gross anatomy and physiology.
- III. Bacteriology.
- IV. Preventable diseases.
- V. Venereal diseases.
- VI. Naval hygiene.
- VII. Military hygiene.
- VIII. Physical training.
- IX. First aid, including that for the effects of gas warfare.
- X. Alcohol and other narcotics; their effects and dangers.

The course is illustrated by charts, manikin, skeleton, blackboard drawings, and moving-picture reels and includes a special lecture on the relation of the oral cavity to the general nutrition and health of the body.

Emphasis is placed on the methods of giving first aid, and practical demonstrations are given in order to prepare these future officers for the instruction of the men of their divisions, as required by Navy regulations.

Two examinations are held, mid-term and final, each embracing one-half of the textbook.

PHYSICAL TRAINING

In this department midshipmen are trained in the principles of health and recreation so as to have before them a long period of healthful service in life. In addition they are given instruction in the various branches of physical drill and athletics so as to be better qualified to lead and coach fleet athletics.

FIRST YEAR—FOURTH CLASS

Initial examination.—Immediately upon entrance to the Naval Academy each midshipman is tested for defects in strength, posture, and swimming. A photographic and graphic record is made at this time.

Requirements

Swimming.—Ability to swim five minutes using three strokes.

Strength.—Ability to equal the standard for strength in 32 out of 42 of the chief muscles of the body.

Gymnasium requirements.—Practical use of muscles in various combinations such as jumping, running, etc.

Posture.—Knowledge of proper "brace" and ability to assume a correct posture.

Boxing.—Demonstration of the elements of self-defense.

Wrestling.—Knowledge and use of six wrestling holds and their counters.

Dancing.—Ability to demonstrate fundamentals of dancing.

In addition to the above subjects which are required, midshipmen of the fourth class are given instruction in football, baseball, crew, track and field, basketball, swimming, boxing, wrestling, lacrosse, rifle, fencing, gymnastics, water polo, tennis, soccer, handball, and training.

SECOND YEAR—THIRD CLASS

Requirements

Swimming.—Ability to swim 120 yards in three and one-half minutes, using three strokes.

Strength.—Ability to equal the standard of strength in 36 out of 42 of the chief muscles of the body.

Gymnasium requirements.—Graded improvement in use of muscles to equal the standards set in 14 practical gymnasium tests.

Posture.—Knowledge of proper "brace" and an habitual correct posture while standing or marching.

In addition to the above requirements midshipmen of the third class are given instruction in the rules and fundamentals of the sports listed under fourth class.

THIRD YEAR—SECOND CLASS

Swimming.—Ability to swim 160 yards in four minutes and thirty seconds, using four strokes. Practical demonstration of life saving and knowledge of resuscitation; diving.

Strength.—Ability to equal the standard for strength in 42 of the chief muscles of the body.

Gymnasium requirements.—Ability to equal the "A" tests in 14 various uses of the body in gymnasium tests.

Posture.—Ability to demonstrate proper posture and direct others in the fundamentals of posture.

In addition to the above requirements midshipmen of the second class are instructed in the methods of officiating athletic contests in the various branches of sports.

FOURTH YEAR—FIRST CLASS

Instruction in self-defense in use of the cane, rough and tumble, boxing, and wrestling. Course in coaching athletics, selective for sports desired.

Textbook used, Manual of Athletic Requirements, United States Naval Academy.

Additional instruction given by moving pictures and selected slides.

ATHLETICS

In the branch of athletics which is entirely voluntary the department to physical training, in conjunction with the Navy Athletic Association, trains and fully equips all athletic teams, whether of Navy, class, or company degree.

A complete organization with necessary equipment is provided so that a midshipman of any size, weight, or degree of skill may find suitable opportunity for participation during all recreation periods.

In general, all outside athletic competition is restricted to colleges and preparatory schools. A wide range of competitive sports ranging from varsity, freshman, and class competition to company meets, induces practically every midshipman to participate in one or more branches at some time during his course at the Naval Academy.

LIBRARY

The library contains 69,700 volumes, and increases at the rate of about 1,500 volumes a year. It is commodiously housed in Mahan Hall, in three large rooms, which are well lighted and ventilated, and all on the same level, with one of them containing a second deck for the shelving of bound sets of periodicals. The collection is especially rich in naval literature; and it is strong in history, biography, literature, travel, and reference books, with other subjects developed in less degree. About 75 periodicals are taken, 1 newspaper, and upward of 20 serials or annuals. All of this material is on open shelves, as freely accessible as it would be in one's own home. The arrangement is plain and convenient. The hours on week days are from 9 a. m. to 6.15 p. m., and on Sundays from 2.30 to 6 p. m. The allowance of books that may be borrowed is eight at a time to officers and professors, and two to midshipmen (periodicals counting as books). A bulletin board announces the new books, and shows the contents of the "Proceedings of the Naval Institute," a monthly magazine of uncommon merit and of great value to the service. Further, to show what the library has to offer and to promote its uses and service, a leaflet or mimeographed bulletin is issued about once a week, containing the titles of from 20 to 25 of the latest books acquired, and beneath each title is a line or two describing the characteristics of the work. Sometimes these bulletins are made up entirely of the titles of articles contained in the publications of naval or engineering societies, and at other times they show the latest articles of special professional interest that appear in the leading magazines. This bulletin is sent to all officers, professors, and midshipmen. It keeps them promptly informed of the books last acquired, and of those ready for use, and it is an aid to all concerned.

Use of the library has been growing steadily, both in reference and research work and in the number of books borrowed and carried to quarters. All midshipmen are required during their first summer to spend there one hour and a half a week. These periods are under the direction of the department of English, and professors of that department are present at such times. The purpose is to acquaint midshipmen with the books, and to teach them how to use the catalogue and to look up topics on which information is sought, when they have need to do so.

Midshipmen may go to the library at all times when their studies and duties do not prevent. The library, constructed on lines of broad culture, reflects this in the training of midshipmen, and aids in giving them that general development which is important in the aim of the Naval Academy.

SUMMARY OF COURSE IN AVIATION INSTRUCTION

A course in aviation for the graduating class, supplementing the regular curriculum, was established at the Naval Academy by the Navy Department in May, 1925. The course includes three months of special intensive training instruction in the ground and flight work, the object being to send the graduating class away from the Naval Academy well founded in the fundamental requirements of naval aviation. The first class to receive this aviation instruction was the class graduating in 1926. The classes that graduated in 1927 and 1928 have also received this instruction.

The scope of the course includes the following subjects and practical training, with time allotted to each in accordance with its relative importance:

- Structure and rigging.

- Aviation engines.

- Theory of flight.

- Aircraft communication.

- Aerology.

- Navigational instruments.

- Aerial navigation.

- Radio code practice.

- Flight training.

- Aerial gunnery.

- Aerial bombing.

- Range gunnery.

- Aircraft scouting.

- Combat and flight formations.

- General and special lectures on aviation subjects by prominent aviators.

- Reading courses on aviation subjects.

In 1929, flight observation training during the summer immediately after graduation was discontinued. The class of 1929 did not, therefore, receive this instruction. In lieu thereof a second class summer was established and the members of the class of 1931 were retained at the Naval Academy to undergo practical instruction in aviation and engineering subjects.

PRIZES AWARDED DURING THE ACADEMIC YEAR 1928-29

PRESENTED BY THE UNITED STATES NAVAL ACADEMY FOR GENERAL EXCELLENCE
IN TARGET PRACTICE

Gold medal, small arms, Midshipman Philip Wilder Mothersill, jr., class of 1930; silver medal, small arms, Midshipman Volckert Petrus Douw, class of 1930; bronze medal, small arms, Midshipman Samuel Sylvester Yeaton, class of 1930.

Midshipmen who qualified as expert riflemen

FIRST CLASS (1929)

Hood, A. H.	Shute, C. C.	Tolley, K.
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SECOND CLASS (1930)

Thibault, J. L.

THIRD CLASS (1931)

Hain, V. R.	Moore, L. S.	Forbes, L. Q.
Harper, J. F., jr.	Ernest, R. N.	Peery, G. A.
Robbins, B. A., jr.	Kunkle, G. O.	Andrews, R. S.

FOURTH CLASS (1932)

Baker, H. E.	Mather, M. C.	Richards, W. L.
Dennett, M. E.	McDougal, D. C., jr.	Short, W. B., jr.
Fawcett, M. A.	Pfingstag, P. W.	Sunderland, M.
Leverenz, R. F.		

CLASS OF 1897 SWORD AND CUP

A sword is awarded annually by the class of 1897 to that midshipman of the graduating class who has contributed most by his officerlike qualities and positive character to the development of naval spirit and loyalty within the regiment. The name of the midshipman to whom the sword is awarded is inscribed on the class of 1897 cup. The cup is retained at the Naval Academy. Midshipman CHARLES ENRIGHT WEAKLEY, class of 1929, was awarded the sword and his name was inscribed on the cup.

CLASS OF 1871 SWORD

The class of 1871 provides funds each year to be given to that midshipman of the graduating class who is most proficient in practical and theoretical ordnance and gunnery, with the understanding that the recipient will purchase a Navy dress sword with these funds. There are further requirements as to how the sword shall be engraved. Midshipman JAMES MOORE FARRIN, jr., class of 1929, was awarded this prize.

CLASS OF 1924 PRIZE

A gold watch, suitably engraved, is presented each year by the class of 1924 to that midshipman of the graduating class who stands highest for the course in the department of engineering and aeronautics. Midshipman ABRAHAM LINCOLN BAIRD, class of 1929, was awarded this prize.

GENERAL SOCIETY, SONS OF THE REVOLUTION CUP

A cup has been presented to the Naval Academy by the General Society, Sons of the Revolution, and remains here. Each year the name of the midshipman who is most proficient in practical ordnance and gunnery is inscribed thereon. The name of Midshipman CORBEN CLARK SHUTE, class of 1929, was inscribed on the cup.

NATIONAL SOCIETY, DAUGHTERS OF THE AMERICAN REVOLUTION SWORD

A sword is presented each year by the National Society, Daughters of the American Revolution, to the midshipman who excels in practical seamanship. Midshipman GEORGE HERRICK WALES, class of 1929, was awarded this prize.

MAURY PRIZE

A pair of marine binoculars, known as the Maury prize, is presented each year by the United Daughters of the Confederacy to the midshipman of the third class who excels in physics. Midshipman TOM DONALD TYRA, class of 1931, was awarded this prize.

MILITARY ORDER OF FOREIGN WARS' PRIZE

A wrist watch, suitably engraved, is presented each year by the Military Order of Foreign Wars, to that midshipman of the graduating class who stands highest for the course in the department of mathematics. Midshipman JOHN BARTHOLOMEW WEBSTER, class of 1929, was awarded the prize.

THE F. E. BUNTS MEMORIAL PRIZE

The Cleveland Naval Academy Graduates' Association presents a pair of marine binoculars, known as the F. E. Bunts memorial prize, to that midshipman of the graduating class appointed from Ohio who stands highest in order of general merit for the four years' course. Midshipman ABRAHAM LINCOLN BAIRD, class of 1929, was awarded the prize.

THOMPSON PRIZE

A navigating sextant is awarded by Col. Robert M. Thompson, class of 1868, U. S. N. A., to the member of each graduating class who proves himself most proficient in practical and theoretical navigation. Midshipman JOHN BARTHOLOMEW WEBSTER, class of 1929, was the recipient of the sextant.

VAN DYKE PRIZE

A gold watch, suitably inscribed, is normally presented by Dr. Henry Van Dyke to the member of each graduating class who submits the best original article or theme on any naval or equally patriotic subject. A prize was not awarded in 1929, however, for the reason that none of the essays submitted was considered deserving of the award.

GARDNER L. CASKEY MEMORIAL PRIZE

A watch, known as the Gardner L. Caskey memorial prize, is presented each year to the midshipman who graduates at the head of his class for the course. The watch was awarded to Midshipman JOHN BARTHOLOMEW WEBSTER, class of 1929.

COMMANDER JAMES EDWARD PALMER PRIZE

Mrs. James Edward Palmer presents a wrist watch, known as the Commander James Edward Palmer prize, to the midshipman of the graduating class who is declared the most proficient in practical steam engineering. The watch was awarded to Midshipman ROBERT BRUCE MCCOY, class of 1929.

NATIONAL ASSOCIATION OF MUTUAL SAVINGS BANKS' PRIZE

The National Association of Mutual Savings Banks has offered an annual prize of \$100 for the best original essay on a theme relating to thrift and savings written by a member of the graduating class. Midshipman RODERICK SHANAHAN ROONEY, class of 1929, was the winner.

NEW YORK TIMES' PRIZES

The New York Times presents annual prizes, as hereinafter enumerated, to the three midshipmen who in a competitive examination show the broadest knowledge and most thorough understanding of current events both domestic and foreign:

First prize.—A bronze plaque and a cash award of \$150. Recipient: Midshipman RODERICK SHANAHAN ROONEY, class of 1929.

Second prize.—A cash award of \$75. Recipient: Midshipman RALPH WALDO ELDEN, class of 1931.

Third prize.—A cash award of \$25. Recipient: Midshipman IRA ELLIS McMILLIAN, class of 1930.

LETTERS OF COMMENDATION AND APPRECIATION

In accordance with Naval Academy Order 12-28, letters of commendation and appreciation were addressed to the below-named midshipmen of the class of 1929, they having contributed most by their officerlike qualities and positive character to the development of naval spirit and loyalty within the regiment during the academic year 1928-29:

Manly Lamar Curry.

Leslie Edward Richardson.

George Hedwig Deiter.

Claude Vernon Ricketts.

John Hancock Keatley.

Charles Edward Trescott.

THOMPSON TROPHY CUP

A cup known as the Thompson trophy cup has been presented to the Naval Academy by Col. Robert M. Thompson, class of 1868, U. S. N. A., on which is inscribed each year the name of the midshipman who shall be declared by the executive committee of the Navy Athletic Association to have done the most during the year preceding for the promotion of athletics at the Naval Academy. The name of Midshipman ELLIOTT WALTER PARISH, jr., class of 1929, was inscribed on the cup.

NAVY ATHLETIC ASSOCIATION SWORD

A sword is presented at the end of each academic year by the Navy Athletic Association to the midshipman who is considered to have personally excelled in general athletics during that year. Midshipman THOMAS REX WILSON, class of 1929, was awarded the sword.

HARVARD SHIELD

The numerals of the class of 1930 were engraved on the "Harvard Shield," which was presented by the Associated Harvard Clubs, as that class which excelled in interclass athletic contests during the past year.

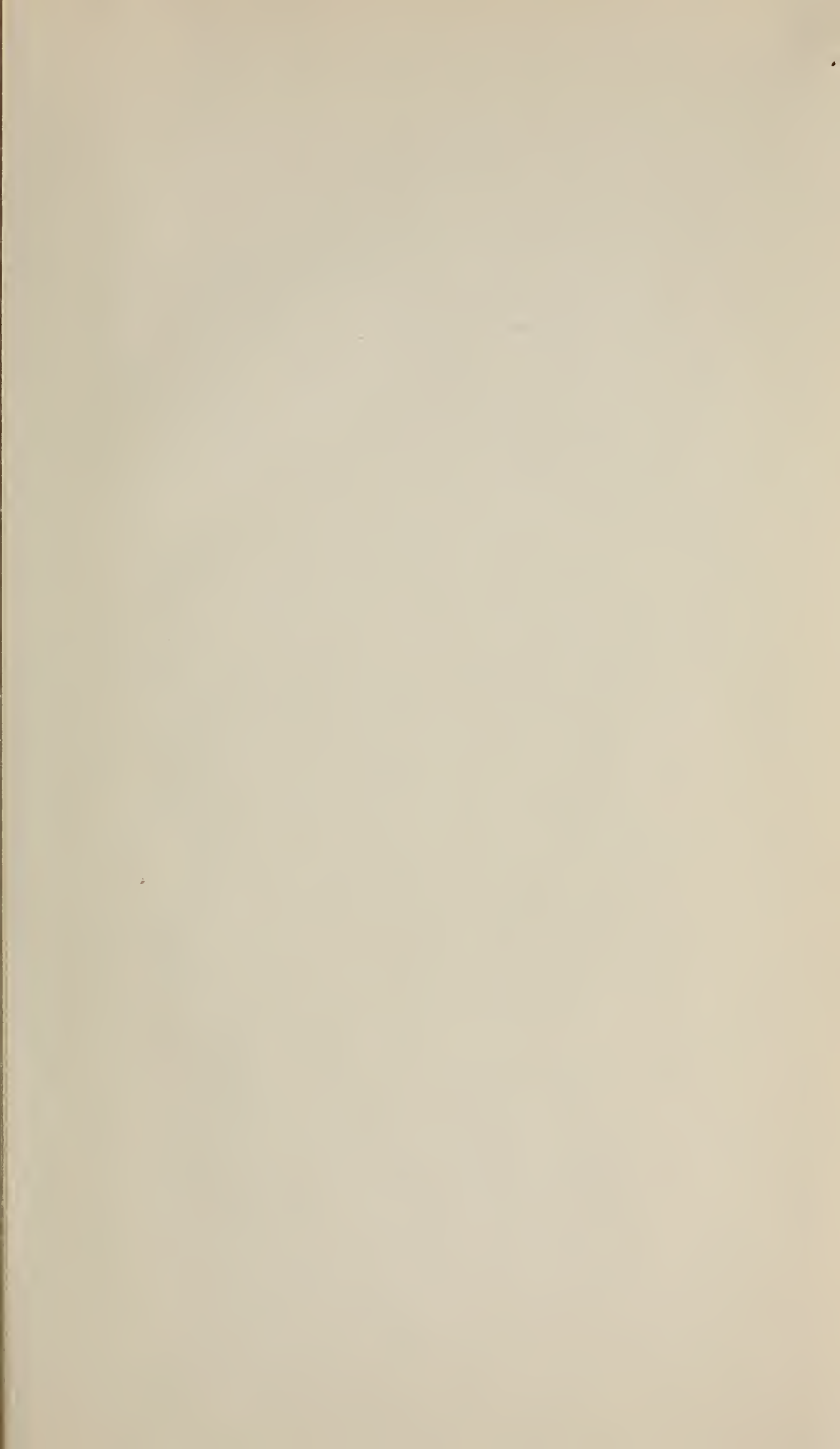
CRENSHAW CUP

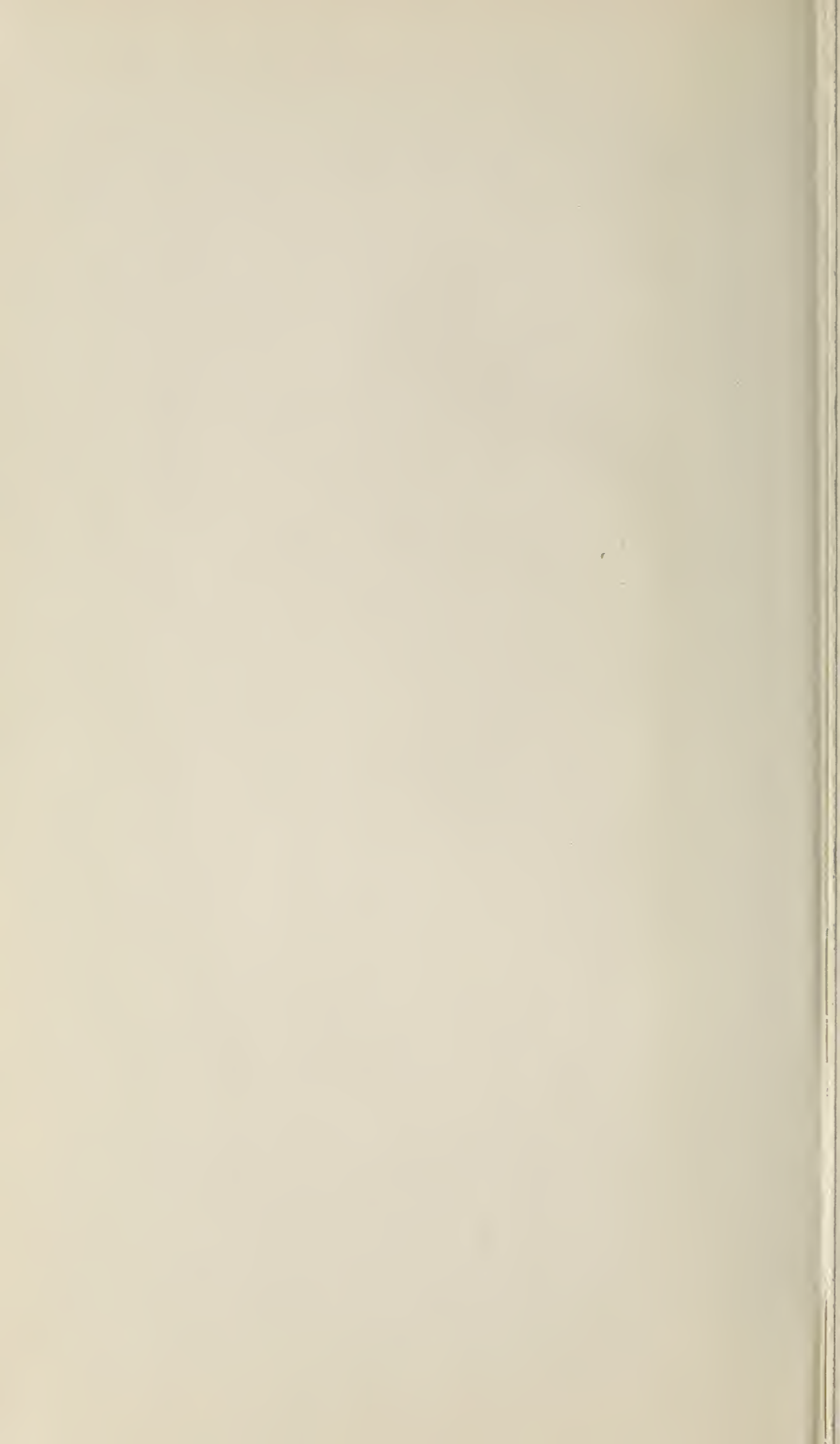
The name of Midshipman John Grafton Burgess, class of 1930, was inscribed on the Crenshaw memorial cup for 1929. This cup was presented by Mr. E. A. Crenshaw, and upon it is to be inscribed each year the name of the coxswain of that 8-oared crew winning the greatest number of races for that year.

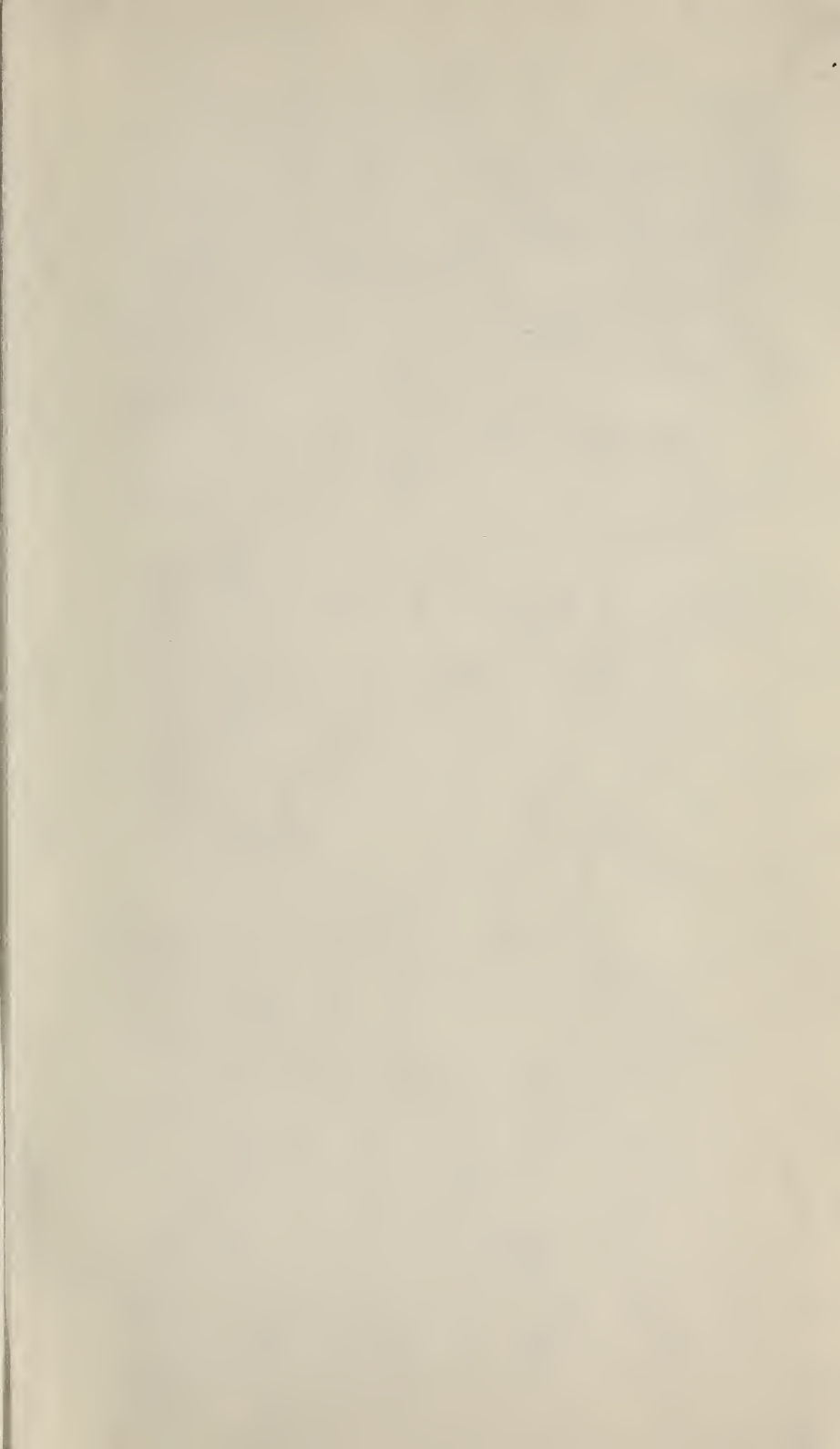
LYSISTRATA CHALLENGE CUP

The race for the "Lysistrata challenge cup" was held during the summer practice cruise, 1929. Midshipmen crews in standard Navy racing cutters competed. The crews finished in the following order: Florida, Utah, and Arkansas.









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